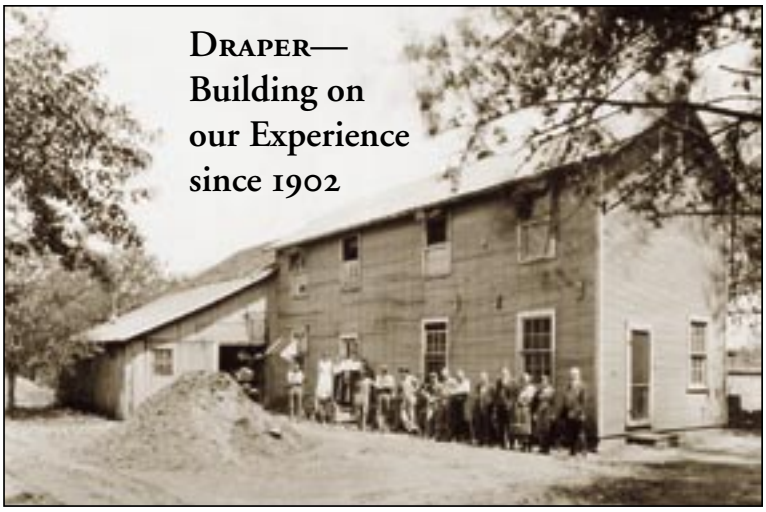
Products for Visual Communication

DRAPER



The Luther O. Draper Shade Company, now known as DRAPER, INC., was founded in Spiceland, Indiana, in 1902. Under the ownership and management of Mr. Draper's descendants, his simple and straightforward business philosophy continues today: make a quality product and offer it at a reasonable price.

Those products include projection screens, rear projection display systems, video projector mounts and lifts, plasma and LCD display mounts and lifts, presentation easels, window coverings and gymnasium equipment.

In addition to its Indiana facility, DRAPER has manufacturing operations in Ohio, China and Sweden, and sales offices in California, the United Kingdom and Hong Kong. DRAPER products are sold to dealers and shipped throughout the United States and to more than 100 countries. DRAPER's dedication to innovation is one reason its workforce has never experienced a layoff.

This catalog features DRAPER's full line of products for visual communication, which includes—

- Ceiling-Recessed Motorized Screens 6-12
- Wall-Mounted Motorized Screens 13-17
- Video Projector Lifts 18-22
- Aero Mounts for LCD Projectors 23-27
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Selecting the Right Projection Screen

Draper manufactures the finest and most complete line of projection screens in the world. We want to help you incorporate these screens into the most effective presentation systems. Planning a projection system involves several steps: choosing the screen size, viewing surface, screen model and control system. We've provided detailed recommendations to help with these important decisions.

Projection Screen Size Selection

One of the most important decisions in screen selection is to determine the correct size of screen based upon—

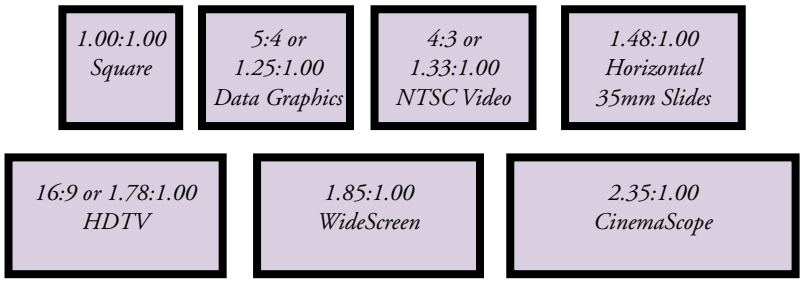
1. The dimensions of the audience area.
2. The projection format(s) to be used.

Other key considerations—

- **Audience Area—**The goal is to make the screen large enough so those in the back row can read the subject matter easily, but not so large as to overwhelm the closest viewer.
- **Height—**Use the following formulas for calculating screen height for maximum legibility. For 4:3 NTSC moving video and entertainment, screen height should be at least ⅙ the distance from the screen to the furthest seat; for charts and data, as in a conference or lecture room, use ¼; for complex graphics found in a command/control center, use ½. For HDTV projection, screen height should equal or exceed ⅓ the distance from the screen to the optimum seat.
- **Width—**Screen width is generally determined by the height of the screen and the projection formats to be used.
- **Ceiling Height—**The bottom of the screen should be approximately 40-48″ above the floor in a room with a level floor and several rows of seats. In rooms with theatre seating or only one or two rows, the bottom of the screen should usually be 24-36″ above the floor. Evaluate any barriers, and try to make sure that the lower part of the screen will be visible from all seats. Extra drop may be required to position the screen at a comfortable viewing level in a room with a high ceiling.
- **Projection Format—**Once you have determined the correct size of screen based upon the audience area, that size may be modified based upon the projection equipment. If the screen will only be used with one type of projector (NTSC video, HDTV, etc.), it is easy to determine the exact screen dimensions based upon its projection format.

Common Projection Formats

Note: Vertical presentation of a slide reverses its aspect ratio. To allow this, use a 1.00:1.00 aspect ratio for any type slide.



Most models of Draper screens are offered in both audio visual and NTSC video formats. Many models are also offered in HDTV and WideScreen formats. The differences between these formats are described below. We are glad to provide any Draper screen in the size and projection format of your choice, up to and including the largest published size.

Audio visual (or AV) format screens accommodate a variety of projector types and range from square to wide horizontal in aspect ratio. **AV format screens** are described in terms of height x width, and are furnished without black borders, although borders are optionally available. Screens with Tab Tensioning System always include black borders and 12″ of black drop at the top.

NTSC video format screens, on the other hand, are specifically designed for use with video/data projectors. Their format is strictly defined as a 4:3 rectangle, and the size is usually described in terms of a nominal diagonal. Conventional models of NTSC format screens are furnished with black borders to frame the image on all four sides. Tab-tensioned screens include black borders at the sides and bottom, and 12″ of black drop at the top. **HDTV format** (16:9) is designed for high-definition television projection, and **WideScreen format** (1.85:1) is suitable for letterboxed video images. Data graphics format (5:4) projectors more accurately reproduce the image from a 1024 x 1280 pixel computer screen. Data graphics format screens are available in any model by quotation.

How to Calculate a Custom Size

Draper also manufactures custom size screens to meet your specification. Virtually any size up to the maximum shown for a given model is available. If you need to calculate a custom size, these formulas may be useful (D = exact diagonal; H = image area height; W = image area width):

4:3 NTSC Video	*16:9 HDTV*	*1.85:1 WideScreen*	*2.35:1 CinemaScope*	*5:4 Data Graphics*
H = D x .6	H = D x .49	H = D x .4762	H = D x .3915	H = D x .625
W = D x .8	W = D x .87146	W = D x .881	W = D x .92	W = D x .781
D = H x 1.667	D = H x 2.04	D = H x 2.1	D = H x 2.554	D = H x 1.601
D = W x 1.25	D = W x 1.1475	D = W x 1.135	D = W x 1.0868	D = W x 1.281

Which Surface? *Textile Backed vs 100% Vinyl*

Textile Backed Screen Surfaces—*A reflective surface laminated to a woven textile base. The screen surface hangs suitably flat because of the stability of the material and the weight of the bottom dowel. Good for all types of projection. Commonly used for single lens video projection, as well as for CRT video and data-graphics projection.*

Fiberglass Matt White—The standard to which all other screen surfaces are compared. Matt white vinyl reflective surface laminated to tear-resistant woven fiberglass. A matt white surface diffuses projected light in all directions, so image can be seen from any angle. Provides accurate color rendition as well as superior clarity. Recommended for use with all high light output projection devices. Requires control of ambient light in the audience area. Washable, flame and mildew resistant. Seamless in all standard sizes through 10′ high.

Panamax—Seamless matt white material for large roller operated screens—up to 16′ wide. Panamax has excellent dimensional stability. Washable. Most motorized screens with Panamax are not UL listed. Refer to specifications on the Web for details: www.draperinc.com.

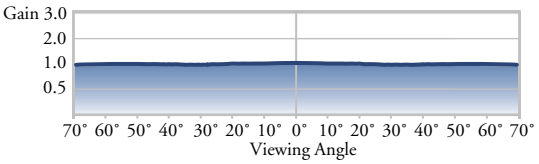
Glass Beaded—Spherical glass beads embedded in surface provide brighter on-axis viewing than matt white, within a narrower viewing cone. All glass beaded surfaces have some loss of clarity and perform best with table-mounted projectors. Flame and mildew resistant, cannot be cleaned. Seamless in standard sizes through 10′ high.

High Contrast Grey—Grey textile-backed surface offers excellent resolution while enhancing the blacks of LCD and DLP projected images, even as whites and lighter colors are maintained. Performs well in ambient light. Lower gain of 0.8 allows use with even the brightest projectors. Available on most non-tensioned motorized and manual screens; seamless in sizes up to 8′ in height.

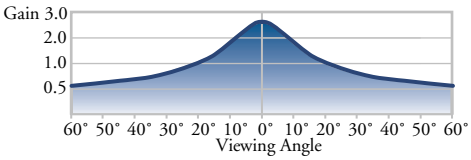
AT1200 and AT Grey—The most innovative and versatile acoustically transparent screen material. Similar in gain performance to matt white. Acoustical properties comparable to the finest speaker grille cloth. Washable, flame and mildew resistant. Available in sizes through 72″ x 96″ or 10′ diagonal. AT1200 is white; AT Grey is grey for high contrast.

Gain Charts*

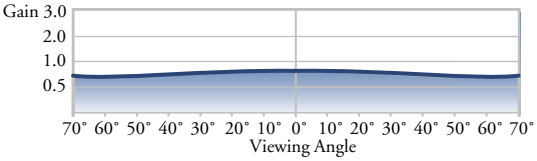
Fiberglass Matt White, Panamax & AT1200



Glass Beaded



High Contrast Grey & AT Grey



100% Vinyl Materials—*These screen surfaces are tensioned vinyl with no backing. Draper offers motorized, crank-operated and permanently tensioned screens with built-in tensioning systems. Advantage—The surface is stretched perfectly flat, resulting in better picture quality. Flatness is always desirable and highly recommended for video or data-graphics projection.*

M1300—The perfect matt white diffusing surface. Extremely broad light dispersion and spectral uniformity. Panoramic viewing angle and true color rendition. For use with any type of projector in rooms where the light level can be reasonably controlled. Washable.

M2500—A high-contrast front viewing surface with excellent resolution and high gain. For data-graphics projectors producing up to 1000 ANSI lumens. M2500 tolerates a higher ambient light level than most other front projection screen surfaces.

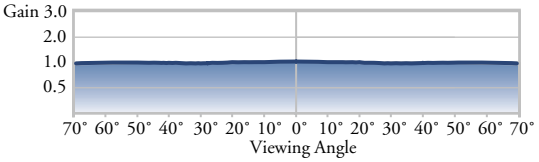
HiDef Grey—A grey front projection surface that provides excellent contrast and black reproduction with a low gain to handle today's super-bright projectors. The grey color enhances color contrast, black levels and allows for more ambient light in the audience area.

Cineflex—A neutral grey vinyl for rear projection. Cineflex has high resolution and excellent contrast, even in lighted rooms. For use with any type of projection equipment.

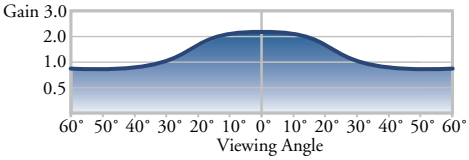
When selecting a front projection surface, several key factors need to be considered, including:

- *Gain*—a relative measure of a screen's reflectivity.
- *Contrast*—the ability to accurately reproduce and differentiate light and dark characters and backgrounds, or light and dark areas of an image.
- *Ambient light rejection properties*—the ability to perform well under normal to adverse audience lighting conditions.
- *Resolution*—the clarity of the projected image.
- *Uniformity*—the screen's performance when viewed from various points off the projection axis (both horizontally and vertically), and when the brightness of the center of the image is compared to the corners.
- *Aspect ratio*—the screen's height and width configuration, formatted for the desired projection source (NTSC video, HDTV, WideScreen, CinemaScope, overhead, slide or motion pictures).

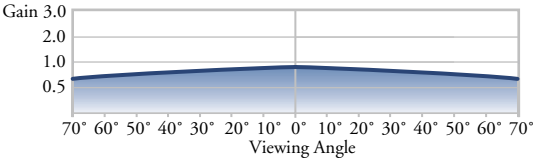
M1300



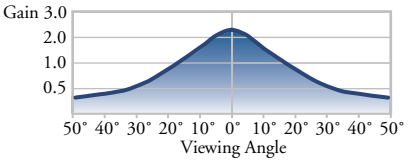
M2500



HiDef Grey



Cineflex



**These charts depict gain values at various points, measured in degrees from projection axis. Gain is a measure of brightness as compared to a block of magnesium carbonate, which serves as a standard for gain of 1.0. These charts also help in judging uniformity. The flatter the curve in the portion of the viewing cone where viewers will be seated, the more consistent the image they will perceive. The quality of an image which the human eye perceives is primarily a function of gain, contrast, uniformity and resolution.*

Warranty—*All products in this catalog are warranted for one year against defects in materials and workmanship. Some products carry a longer warranty term: see product description. Defective products will be repaired or replaced, at Draper's option. Authorization required prior to return. Detailed warranty terms are available upon request.*

Front Projection Screens—Their Surfaces and Features

Screen Model	Page Number	HC Grey, Fiberglass Matt White or Glass Beaded	M1300, M2500 or HiDef Grey	Panamax	AT1200/AT Grey Acoustically Transparent	Cineflex Rear Vinyl	Operator (see key)	12″ Black Drop Supplied	Tensioned Viewing Surface	Ceiling Closure	Sizes Over 12′ wide
Access MultiView/Series E	6, 9	✻			✻		M/R	✻			
Access MultiView/Series V	6, 9		✻			✻	M/R	✻	✻		
Access/Series E	6, 7	✻		✻	✻		M/R				✻
Access/Series M	6, 38	✻					SR				
Access/Series V	6, 7		✻			✻	M/R	✻	✻		
Access Sonata/Series E	6, 9	✻			✻		M/R	✻			
Access Sonata/Series V	6, 9		✻				M/R	✻	✻		
Ambassador	11	✻					M			✻	
Apex	38	✻					SR			✻	
Artisan/Series E	13	✻					M/R				
Artisan/Series M	40	✻					SR				
Artisan/Series V	13		✻				M/R	✻	✻		
Cineperm	37		✻		✻	✻	PT		✻		✻
Cinefold & Truss Cinefold	48-49		✻[1]			✻	P		✻		✻
Clarion	35	✻[2]	✻		✻		PT		✻		
Consul	51	✻[3]					P				
Diplomat & Diplomat/R	51	✻					P				
Envoy	11	✻		✻			M/R			✻	
Evenroll	41	✻[3]					Rope/Pulley				✻
Exxpress	44-45				✻[4]		P		✻		
Luma, Luma 2, Luma 2/R	41, 43	✻					SR				
Luma Elite	43	✻[3]					SR		✻		
Onyx	34		✻		✻	✻	PT		✻		✻
Paragon	12	✻[3]					M/R				✻
Premier	14		✻			✻	M/R	✻	✻		
Premier/Series C	40		✻			✻	C	✻	✻		
RoadWarrior	52	✻					P				
Rolleramic	12	✻		✻			M				✻
Salara	16	✻			✻		M/R				
Salara/Series M	44	✻					SR				
ShadowBox Clarion	36		✻			✻	PT		✻		
Signature/Series E	10	✻		✻	✻		M/R			✻	✻
Signature/Series V	10		✻			✻	M/R	✻	✻	✻	✻
Silhouette/Series C	39		✻			✻	C	✻	✻		
Silhouette/Series E	17	✻			✻		M/R				
Silhouette/Series M	39	✻					SR				
Silhouette/Series V	17		✻			✻	M/R	✻	✻		
Star	42	✻[5]					SR				
Targa	15	✻		✻	✻		M/R				✻
Traveller	53	✻					P				
Ultimate Folding Screen	46-47		✻[1]			✻	P		✻		✻
Ultimate Access/Series E	6, 8	✻		✻	✻		M/R			✻	
Ultimate Access/Series V	6, 8		✻			✻	M/R	✻	✻	✻	
VScreen	42	✻[5]					SR				
WrapAround Clarion	36		✻				PT		✻		

[1] Flexible Matt White is the front projection viewing surface available.
[2] Not available with High Contrast Grey or Matt White.
[3] Not available with High Contrast Grey.
[4] The Exxpress screen surface is made of SpanTec™, a flexible, flame retardant and acoustically transparent polyester material. Alpine White in color.
[5] Matt White only.

For specific details, size and surface limitations, see the descriptions and charts on the referenced pages.

Operator Key
C = Crank
M = Motorized
M/R = Motor-in-Roller
P = Portable
PT = Permanently Tensioned
SR = Spring Roller

Access Concept

- *Access/Series V, Series E & Series M*
- *Ultimate Access/Series V & Series E*
- *Access Sonata/Series V & Series E*
- *Access MultiView/Series V & Series E*

The Access Series is Draper's innovative solution to the problems that have plagued projection screen buyers for years—incorrect size of screen, aspect ratio or choice of surface, and job site damage during construction—all can be avoided with an Access.

Case Now/Screen Later—The essence of the Access concept is a unique ceiling-recessed, extruded aluminum headbox. The screen itself—viewing surface attached to roller—can either be furnished with the headbox or at any time thereafter. The screen installs in minutes with only a hex key.

The ten models which comprise the Access Series are described here, on pages 7-9, and 38.

What If...

What if you know you want a ceiling-recessed screen, but you don't know what projector (or projectors) will be used. Therefore, you don't know the optimum size or aspect ratio of the screen, the optimum screen surface or whether tab tensioning is required.

✔ *No problem with the Access—Order the case now. Just make sure it's large enough to accept the largest screen you think you may need. Order the screen later, after the projector decision is made. Or let the occupant make the decision at a later date.*

What if technology changes? What if a new projection format is introduced, or Draper introduces a superior new screen surface?

✔ *No problem with the Access—It's quick, easy and comparatively inexpensive to replace the screen in an Access with no extra electrical or ceiling work.*

What if you're planning a facility and the room design is flexible, or the presentation rooms have not yet been determined?

✔ *No problem with the Access—Install an Access case in each room during construction and think about screen selection later. Adds great value to the facility.*

Access Case

Access Case

Easy Installation—Easy Access

It's easy to see why the Access Series is so popular. Designed with solutions in mind, the case features include:

- Hanging brackets that slide in channels on top of the case, allowing unlimited adjustment to avoid interference with conflicting building structures. ❶
- A pre-wired junction box inside (left end standard), and cable exit holes on top.
- "Pin connector" electrical connection of screen to junction box—eliminating tools.
- Flange that supports ceiling tile or trims the opening of any type of ceiling. ❷
- Bottom of case that forms a slot for fabric passage ❸, and is removable without tools ❹ for installation or replacement of screen.

The screen (viewing surface attached to roller) comes with easy-to-install roller brackets. These slide along a track inside the top of the case, and may be locked in place at any point so the case can accommodate different screen sizes. Since both brackets are movable, the screen can always be centered in the case—regardless of case size. A large case allows for unlimited flexibility.

The Access case may be ordered in advance of the screen or alone. The installation of a ceiling-recessed projection screen in the aftermarket may cost more than the screen itself, so a pre-installed ceiling-recessed housing adds real value. You can select, order and install the desired Access Series screen at any later date.

Ultimate Access Case

One step further—The Ultimate Access

The Ultimate Access case offers all the advantages of the Access, *plus an independently motorized "trap door" ceiling closure.* The Ultimate Access' door opens up into the case. It never dangles behind the viewing surface and when closed, it is perfectly flat without adjustment.

At right, the Ultimate Access case is shown with the ceiling closure closed ❺, then open inside the case. ❻ Finally, the entire closure extends down as required for screen installation or adjustment. ❼

Access Series

Eliminates your installation problems. Install the case now and the screen later.

The Access is the most versatile ceiling-recessed screen on the market. No other projection screen offers you the benefits of installing the case during construction, and quick-connecting the viewing surface at a later date to eliminate job site damage. See page 6 for details of Draper's Access case.

Access/Series V—Features Draper's Tab Tensioning System for a perfectly flat projection surface. Choose M1300, M2500, HiDef Grey or Cineflex rear projection viewing surface. See page 14 for more on the benefits of Tab Tensioning.

Access/Series E—Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, High Contrast Grey, Panamax or acoustically transparent AT1200 or AT Grey.

System Options

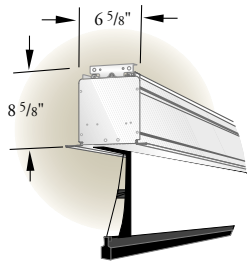
- ***Extra Drop***—12″ black drop at top of image area is now standard on Series V tab-tensioned screens. Additional drop is optional, either white or black. (White is standard for Series E in AV format. Black is standard for Series E in all other formats and for all Series V screens). Extra drop will increase the overall length of the case of a Series V screen.
- ***Black Masking Borders***—Borders are optional for Series E in AV format. Borders are standard for Series E in all other formats and for all Series V screens.
- ***Larger sizes now available.***
- ***Control Options***—Refer to page 22. Controls may be built into case and will increase overall length of case.
- ***Screen/Case Options***—Left or right motor location.

Access/Series V: American Airlines Federal Credit Union, Dallas, Texas. Installation by Audio Visual Innovations. Photograph by Charles D. Smith–AIA

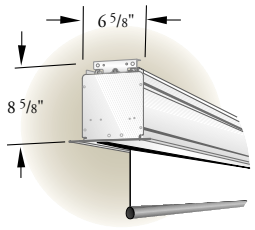
Screen up

Screen down

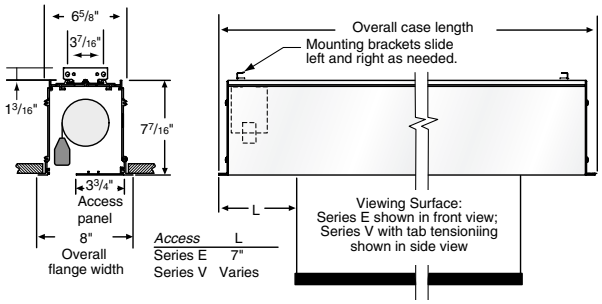
Bottom panel off during installation



Access/Series V



Access/Series E



Size HxW	Series E Case Length*	Series E Net Wt. (lbs.)	Series V Case Length*	Series V Dowel Length	Series V Net Wt. (lbs.)
Audio Visual Format					
50″ x 50″	5′4″	50	6′3″	5′	58
60″ x 60″	6′2″	55	7′2″	5′11″	66
70″ x 70″	7′	65	8′	6′10″	69
84″ x 84″	8′2″	72	9′3¼″	8′	74
72″ x 96″	9′2″	80	10′2″	9′	92
96″ x 96″	9′2″	90	10′4¾″	9′1½″	92
7′ x 9′	10′2″	92	11′3¼″	10′	95
9′ x 9′	10′2″	93	11′4¾″	10′2″	95
8′ x 10′	11′2″	97	12′4¾″	11′1½″	99
10′ x 10′	11′2″	107	12′6½″	11′3¾″	109
9′ x 12′	13′2″	108	14′4¾″	13′2″	110
12′ x 12′	13′2″	119	14′10½″	13′5½″	121

*Optional built-in controls increase length of case. In Series V, extra drop also increases case length. Consult factory if this dimension is critical.

U.S. Patent Nos. 6,137,629; 6,421,175 and 6,532,109; Other patents pending.

Complete Access Series specifications: www.draperinc.com

Size Nom. Diag.	Series E Image Area HxW	Series E Case Length*	Series E Net Wt. (lbs.)	Series V Image Area HxW	Series V Case Length*	Series V Dowel Length	Series V Net Wt. (lbs.)
NTSC Format (4:3)							
6′	42½″ x 56½″	6′2″	55	42½″ x 56½″	6′9½″	5′6½″	60
7′	50″ x 66½″	7′	61	50″ x 66½″	7′7½″	6′4½″	68
100″	60″ x 80″	8′2″	71	60″ x 80″	8′9″	7′7″	73
10′	69″ x 92″	9′2″	82	72″ x 96″	10′2″	9′	92
11′	78″ x 104″	10′2″	96	78″ x 104″	10′11¼″	9′8″	98
150″	87″ x 116″	11′2″	102	87″ x 116″	11′11¼″	10′9½″	104
15′	105″ x 140″	13′2″	108	108″ x 144″	14′4¾″	13′2″	110
200″	118″ x 158″	14′8″	114	—	—	—	—
HDTV Format (16:9)							
92″	45″ x 80″	8′2″	74	45″ x 80″	8′9″	7′6″	76
106″	52″ x 92″	9′2″	78	52″ x 92″	9′9″	8′6″	80
119″	58″ x 104″	10′2″	82	58″ x 104″	10′9″	9′7″	85
133″	65″ x 116″	11′2″	87	65″ x 116″	11′10″	10′7″	89
161″	79″ x 140″	13′2″	104	79″ x 140″	13′11¼″	12′8″	106
184″	90″ x 160″	14′10″	111	—	—	—	—
WideScreen Format (1.85:1)							
99″	47″ x 87″	8′8″	75	47″ x 87″	9′4″	8′1″	79
108″	50″ x 92″	9′2″	78	50″ x 92″	9′9″	8′6″	80
120″	56″ x 104″	10′2″	80	56″ x 104″	10′9″	9′7″	85
132″	63″ x 116″	11′2″	87	63″ x 116″	11′10″	10′7″	89
162″	76″ x 140″	13′2″	104	76″ x 140″	13′11¼″	12′8″	106
182″	86½″ x 160″	14′10″	111	—	—	—	—

Ultimate Access

With an independently motorized ceiling closure.

The Ultimate Access offers all the advantages of the Access, *plus an independently motorized ceiling closure*. In its closed position, the motorized closure forms a solid bottom panel giving the ceiling a clean appearance. At the touch of a switch or wireless transmitter, the door of the Ultimate Access opens *into* the case before the viewing surface descends into the room. Your audience will be impressed by its precision timing and quiet, fluid movement.

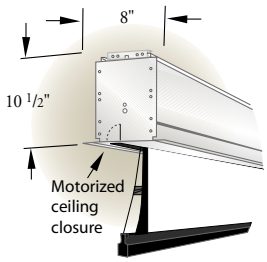
No other projection screen offers you so many benefits. Refer to page 6 for the rewards of installing the Access case during the "dirty" phase of the construction process. The screen (motor-in-roller with attached viewing surface) can be ordered, shipped and stored independently of the headbox, and popped into the case at a future date.

U.S. Patent Nos. 5,341,241; 6,137,629; 6,421,175 and 6,532,109. Other Patents Pending.

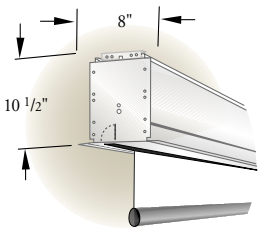
Ultimate Access—*the ultimate in projection screen design.*

Ultimate Access/Series V—Features Draper's Tab Tensioning System for a perfectly flat projection surface. Choose M1300, M2500, HiDef Grey or Cineflex rear projection viewing surface. See page 14 for more on the benefits of Tab Tensioning.

Ultimate Access/Series E—Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, High Contrast Grey, Panamax or acoustically transparent AT1200 or AT Grey.



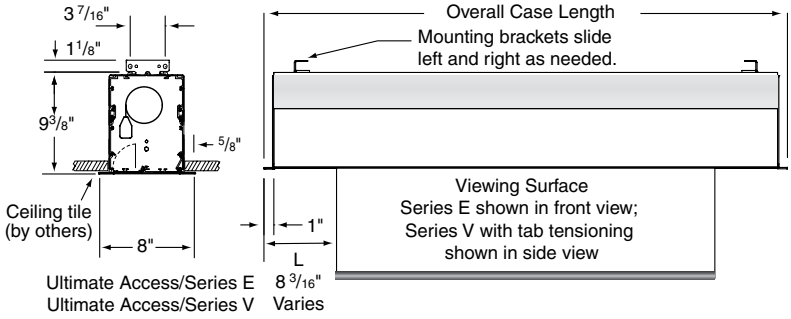
Ultimate Access/Series V



Ultimate Access/Series E

System Options

- ***Extra Drop***—12″ black drop at top of image area is now standard on Series V tab-tensioned screens. Additional drop is optional, either white or black. (White is standard for Series E in AV format. Black is standard for Series E in all other formats and for all Series V screens). Extra drop will increase the overall length of the case of a Series V screen.
- ***Black Masking Borders***—Borders are optional for Series E in AV format. Borders are standard for Series E in all other formats and for all Series V screens.
- ***Control Options***—Refer to page 22. Controls may be built into case.
- ***Screen/Case Options***—Left end motor location only.



Size HxW	Series E Case Length	Series E Net Wt. (lbs.)	Series V Case Length*	Series V Dowel Length	Series V Net Wt. (lbs.)
Audio Visual Format					
50″ x 50″	5′6⅜″	82	6′3⅞″	5′	84
60″ x 60″	6′4⅜″	89	7′2⅞″	5′11″	96
70″ x 70″	7′2⅜″	98	8′⅞″	6′10″	100
84″ x 84″	8′4⅜″	105	9′4⅛″	8′	108
72″ x 96″	9′4⅜″	121	10′2⅞″	9′	134
96″ x 96″	9′4⅜″	127	10′5⅝″	9′1½″	135
7′ x 9′	10′4⅜″	134	11′4⅛″	10′	138
9′ x 9′	10′4⅜″	135	11′5⅝	10′2″	139
8′ x 10′	11′4⅜″	141	12′5⅝	11′1½″	144
10′ x 10′	11′4⅜″	155	12′7⅜″	11′3¾″	158
9′ x 12′	13′4⅜″	157	14′5⅝	13′2″	160
12′ x 12′	13′4⅜″	173	14′11⅜″	13′5½″	176

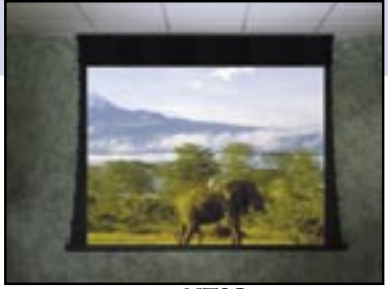
* In Series V, extra drop increases case length. Consult factory if this dimension is critical.

Complete Ultimate Access Series specifications: www.draperinc.com

Size Nom. Diag.	Series E Image Area HxW	Series E Case Length	Series E Net Wt. (lbs.)	Series V Image Area HxW	Series V Case Length*	Series V Dowel Length	Series V Net Wt. (lbs.)
NTSC Format (4:3)							
6′	42½″ x 56½″	6′4⅜″	85	42½″ x 56½″	6′10⅜″	5′6½″	87
7′	50″ x 66½″	7′2⅜″	96	50″ x 66½″	7′8⅜″	6′4½″	99
100″	60″ x 80″	8′4⅜″	103	60″ x 80″	8′10⅞″	7′7″	106
10′	69″ x 92″	9′4⅜″	121	72″ x 96″	10′2⅞″	9′	134
11′	78″ x 104″	10′4⅜″	136	78″ x 104″	11′⅛″	9′8″	140
150″	87″ x 116″	11′4⅜″	138	87″ x 116″	12′⅛″	10′9½″	142
15′	105″ x 140″	13′4⅜″	157	108″ x 144″	14′5⅝″	13′2″	160
HDTV Format (16:9)							
92″	45″ x 80″	8′4⅜″	100	45″ x 80″	8′9⅞″	7′6″	103
106″	52″ x 92″	9′4⅜″	120	52″ x 92″	9′9⅞″	8′6″	130
119″	58″ x 104″	10′4⅜″	132	58″ x 104″	10′9⅞″	9′7″	135
133″	65″ x 116″	11′4⅜″	134	65″ x 116″	11′10⅞″	10′7″	137
161″	79″ x 140″	13′4⅜″	152	79″ x 140″	14′⅛″	12′8″	155
WideScreen Format (1.85:1)							
99″	47″ x 87″	8′10⅜″	112	47″ x 87″	9′4⅞″	8′1″	110
108″	50″ x 92″	9′4⅜″	120	50″ x 92″	9′9⅞″	8′6″	130
120″	56″ x 104″	10′4⅜″	130	56″ x 104″	10′9⅞″	9′7″	134
132″	63″ x 116″	11′4⅜″	134	63″ x 116″	11′10⅞″	10′7″	137
162″	76″ x 140″	13′4⅜″	152	76″ x 140″	14′⅛″	12′8″	155

Access Sonata

One screen, four formats.



1.33:1 NTSC

1.78:1 HDTV

1.85:1 WideScreen

2.35:1 CinemaScope

Access Sonata—a motorized screen and masking system linked electronically provides *four* different projection formats at the touch of a button—all in a ceiling-recessed Access case.

A flat black mask on a second roller converts the projection screen to your choice of four formats: NTSC, HDTV, WideScreen and CinemaScope.

During format change, the center line and width of the viewing surface remain constant while the mask and projection screen move simultaneously into their factory preset positions.

Access Sonata—*one screen, four formats. Unlimited possibilities.*

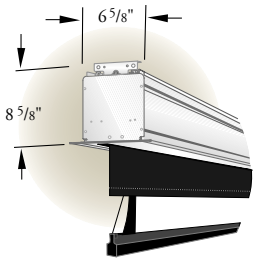
Access Sonata/Series V—Features Draper's Tab Tensioning System for a perfectly flat projection surface. Choose M1300, M2500 or HiDef Grey. See page 14 for more on the benefits of Tab Tensioning.

Access Sonata/Series E—Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, High Contrast Grey, or acoustically transparent AT1200 or AT Grey.

System Options

- ***Extra Drop***—12″ black drop standard for all screens in both Series. Extra black drop available up to a total screen height of 100″.
- ***Black Masking Borders***—Borders are standard for all screens in both Series.
- ***Control Options***—Refer to page 22. Single station 6-button wall switch standard. Compatible with Sonata IR remote control.

Size Nominal Diagonal	Screen Image NTSC 4:3 H x W	Masked Image HDTV 16:9 H x W	Masked Image WideScreen 1.85:1 H x W	Masked Image CinemaScope 2.35:1 H x W	Series V Case Length*	Series V Net Wt. (lbs.)	Series E Case Length*	Series E Net Wt. (lbs.)
6′	42½″ x 56½″	32″ x 56½″	30½″ x 56½″	24″ x 56½″	6′11½″	100	6′4⅝″	100
7′	50″ x 66½″	37½″ x 66½″	36″ x 66½″	28½″ x 66½″	7′10½″	110	7′2⅝″	110
100″	60″ x 80″	45″ x 80″	43″ x 80″	34″ x 80″	9′	130	8′4⅛″	130
10′	69″ x 92″	51½″ x 92″	50″ x 92″	39″ x 92″	—	—	9′4⅛″	135
10′	72″ x 96″	54″ x 96″	52″ x 96″	41″ x 96″	10′5¼″	136	—	—
11′	78″ x 104″	58½″ x 104″	56″ x 104″	44½″ x 104″	11′2¾″	140	10′4⅛″	140
150″	87″ x 116″	65″ x 116″	63″ x 116″	49½″ x 116″	12′2¾″	150	11′4⅛″	150



U.S. Patent 6,137,629; 6,421,175; 6,532,109. Other patents pending.

Access MultiView

One screen, two formats.

Access MultiView—a motorized screen and independently motorized masking system provides *dual* format projection—all in a ceiling-recessed Access case.

Select a projection screen in HDTV or WideScreen format up to 10′ wide. *A flat black mask* on a second motor-in-roller converts the screen to a NTSC video format by masking the right and left sides of the viewing surface. The height of the viewing surface remains constant.

Access MultiView/Series V— Features Draper's Tab Tensioning System for a perfectly flat projection surface. Choose M1300, M2500 or HiDef Grey. See page 14 for more on the benefits of Tab Tensioning.

Access MultiView/Series E—Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, High Contrast Grey, or acoustically transparent AT1200 or AT Grey.

1.78:1 HDTV or 1.85:1 WideScreen

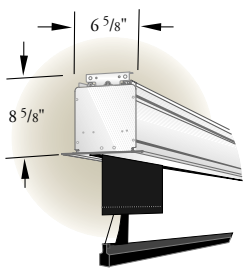
1.33:1 NTSC

System Options

- ***Extra Drop***—12″ black drop standard for all screens in both Series. Extra black drop available up to a total screen height of 90″.
- ***Black Masking Borders***—Borders are standard for all screens in both Series.
- ***Control Options***—Screen and mask are independently controlled, each by a standard 3-position rocker switch. Options include a 24v, 6-button, single gang wall switch that controls both motors; two wireless IR remote controls; or two wall switches with built-in IR receivers and one transmitter.

From 16:9 HDTV or Nominal Diagonal	Open Image Area (16:9)	From 1.85:1 WideScreen Nominal Diagonal	Open Image Area (1.85:1)	To 4:3 NTSC Video Nominal Diagonal	Masked Image Area (4:3)	Series V Case Length*	Series V Net Wt. (lbs.)	Series E Case Length*	Series E Net Wt. (lbs.)
92″	45″ x 80″	95″	45″ x 83″	75″	45″ x 60″	9′2¼″	85	8′8⅝″	85
106″	52″ x 92″	109″	52″ x 96″	86″	52″ x 69″	10′5″	95	9′9⅝″	95
123″	60″ x 107″	126″	60″ x 111″	100″	60″ x 80″	11′8″	110	11′ ⅝″	120
133″	65″ x 116″	136″	65″ x 120″	108″	65″ x 87″	12′7″	135	11′9⅝″	145

**Extra drop, beyond the 12″ that is standard, increases length of case on Series V screens. Built-in controls will increase length of case.*



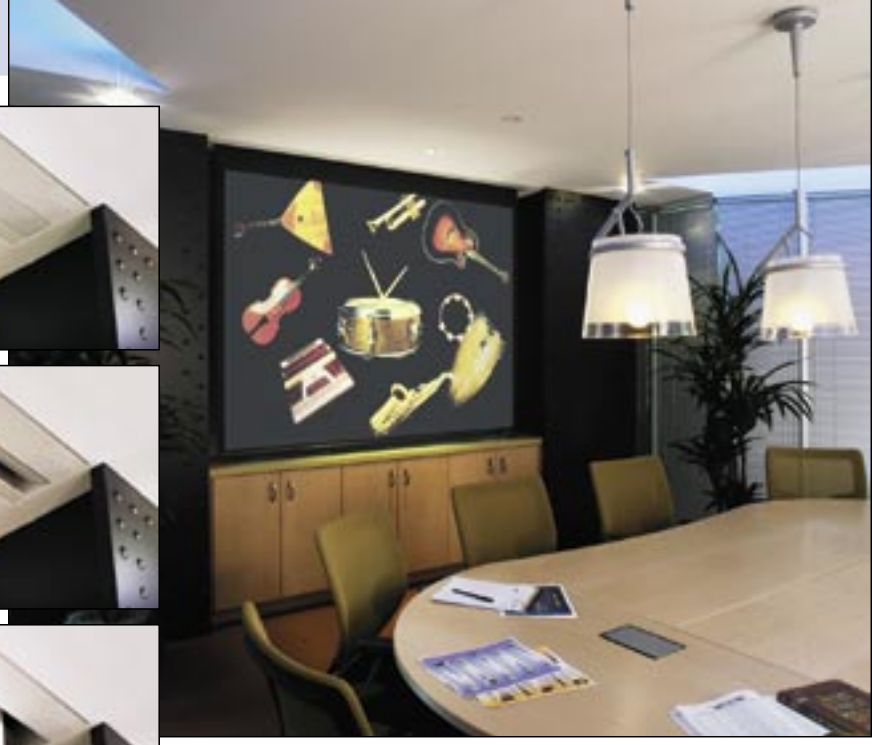
Signature Series

Sizes through 16′ wide; Automatic ceiling closure.

The Signature Series offers the clean appearance of a ceiling-recessed screen in any size through 16′ wide. White aluminum case. Signature's independently motorized ceiling closure disappears *into* the case when the screen is lowered, for a perfectly unobstructed view. Hinges are completely concealed, and the closure is supported for its entire length—no sag is possible. These exclusive features mean that the Signature Series is the best-concealed projection screen you've ever seen. Screen can be remotely operated.

Signature/Series V—Features Draper's Tab Tensioning System for a perfectly flat projection surface. Choose M1300, M2500, HiDef Grey or Cineflex rear projection viewing surface. See page 14 for more on the benefits of Tab Tensioning.

Signature/Series E—Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, High Contrast Grey, Panamax or acoustically transparent AT1200 or AT Grey.



Signature/Series E: Radio One, Cincinnati. Installation by NOR-COM, Inc.
U.S. Patent No. 5,341,241

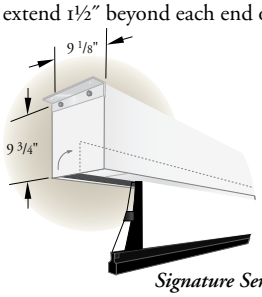
System Options

- ***Extra Drop, Series V***—12″ black drop at top of image area is now standard on tab-tensioned screens. Additional drop is optional, either white or black, up to 14′ overall height (black is standard). *Additional drop will increase case and dowel length. Consult Draper if this dimension is critical.
- ***Extra Drop, Series E***—Up to 16′ overall height, either white or black (white is standard for Series E in AV format; black for all other formats).
- ***Black Masking Borders***—Borders are optional for Series E in AV format. Borders are standard for Series E in all other formats and for all Series V screens.
- ***Control Options***—Refer to page 22. Controls may be built into case and will increase the overall length of the case.

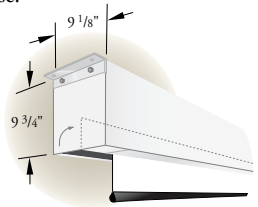
Complete Signature Series specifications: www.draperinc.com

Size HxW	Series E Case Length	Series E Net Wt. (lbs.)	Series V Case Length*	Series V Dowel Length*	Series V Net Wt. (lbs.)
Audio Visual Format					
50″ x 50″	4′8⅜″	52	5′6″	5′	63
60″ x 60″	5′6⅜″	63	6′5″	5′11″	75
70″ x 70″	6′4⅜″	75	7′3″	6′10″	84
84″ x 84″	7′6⅜″	84	8′6¼″	8′	98
72″ x 96″	8′6⅜″	98	9′5″	9′	109
96″ x 96″	8′6⅜″	109	9′7¾″	9′1½″	110
7′ x 9′	9′6⅜″	122	10′6¼″	10′	124
9′ x 9′	9′6⅜″	124	10′9½″	10′2″	125
8′ x 10′	10′6⅜″	130	11′7¾″	11′1½″	132
10′ x 10′	10′6⅜″	132	11′9½″	11′3¾″	136
9′ x 12′	12′6⅜″	153	13′9½″	13′2″	156
12′ x 12′	12′6⅜″	156	14′1½″	13′5½″	158
10′6″ x 14′	14′9″	190	16′½″	15′3¾″	240
14′ x 14′	14′9″	192	16′7¼″	15′9½″	250
12′ x 16′	16′9″	215	18′2½″	17′5½″	260
16′ x 16′	16′9″	216	—	—	—

Case dimensions: 9¾″ high x 9⅛″ wide in sizes through 144″ wide; 11″ high x 9⅛″ wide in larger sizes. Mounting brackets extend 1½″ beyond each end of case.



Signature Series V

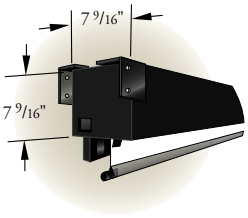


Signature Series E

Size Nom. Diag.	Series E Image Area HxW	Series E Case Length	Series E Net Wt. (lbs.)	Series V Image Area HxW	Series V Case Length*	Series V Dowel Length*	Series V Net Wt. (lbs.)
NTSC Format (4:3)							
6′	42½″ x 56½″	5′6⅜″	70	42½″ x 56½″	6′½″	5′6½″	75
7′	50″ x 66½″	6′4⅜″	75	50″ x 66½″	6′10½″	6′4½″	79
100″	60″ x 80″	7′6⅜″	78	60″ x 80″	8′1″	7′7″	95
10′	69″ x 92″	8′6⅜″	92	72″ x 96″	9′5″	9′	109
11′	78″ x 104″	9′6⅜″	109	78″ x 104″	10′2¼″	9′8″	122
150	87″ x 116″	10′6⅜″	117	87″ x 116″	11′2¼″	10′9½″	127
15′	105″ x 140″	12′6⅜″	132	108″ x 144″	13′9½″	13′2″	156
200″	118″ x 158″	14′5″	185	118″ x 158″	15′½″	14′5¾″	199
210″	126″ x 168″	15′1″	190	126″ x 168″	16′½″	15′3¾″	240
220″	132″ x 176″	15′9″	205	132″ x 176″	16′8½″	15′11¾″	250
230″	138″ x 184″	16′5″	210	138″ x 184″	17′6½″	16′9½″	255
240″	141″ x 188″	16′9″	216	144″ x 192″	18′2½″	17′5½″	260
HDTV Format (16:9)							
92″	45″ x 80″	7′6⅜″	78	45″ x 80″	8′	7′6″	94
106″	52″ x 92″	8′6⅜″	92	52″ x 92″	9′	8′6″	107
119″	58″ x 104″	9′6⅜″	100	58″ x 104″	10′1″	9′7″	121
133″	65″ x 116″	10′6⅜″	109	65″ x 116″	11′1″	10′7″	126
161″	79″ x 140″	12′6⅜″	132	79″ x 140″	13′2¼″	12′8″	150
184″	90″ x 160″	14′5″	185	90″ x 160″	15′¾″	14′5½″	199
193″	94½″ x 168″	15′1″	190	94½″ x 168″	15′8¾″	15′1½″	230
220″	106″ x 188″	16′9″	216	108″ x 192″	17′10½″	17′2″	240
WideScreen Format (1.85:1)							
99″	47″ x 87″	8′⅜″	90	47″ x 87″	8′7″	8′1″	99
108″	50″ x 92″	8′6⅜″	92	50″ x 92″	9′	8′6″	107
120″	56″ x 104″	9′6⅜″	105	56″ x 104″	10′	9′7″	121
132″	63″ x 116″	10′6⅜″	109	63″ x 116″	11′1″	10′7″	126
162″	76″ x 140″	12′6⅜″	132	76″ x 140″	13′2¼″	12′8″	150
182″	86½″ x 160″	14′5″	185	86½″ x 160″	15′¾″	14′5½″	199
190″	91″ x 168″	15′1″	190	91″ x 168″	15′8¾″	15′1½″	230
218″	102″ x 188″	16′9″	216	104″ x 192″	17′10½″	17′2″	240

Envoy

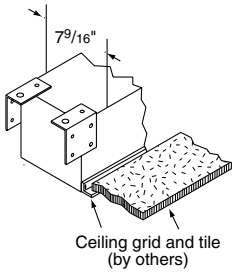
Motor-in-roller with ceiling closure.



The Envoy adds a touch of class to any presentation. The screen is recessed in the ceiling and invisible when not in use. At the touch of a switch, an automatic ceiling closure opens and the screen appears. The ceiling closure can easily be finished to match the ceiling.

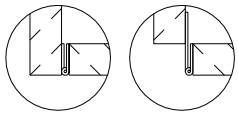
The Envoy operates smoothly and silently. The motor is mounted inside the roller on special vibration insulators. The screen's slender profile makes it easy to install above most ceilings.

Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, High Contrast Grey or Panamax.

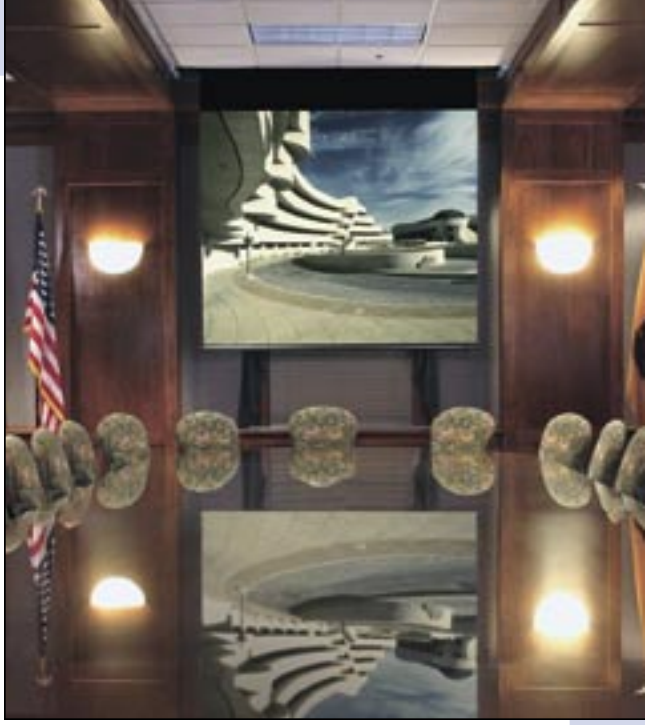


System Options

- ***Extra Drop***—Up to 12′ overall height, either white or black (white is standard for AV format, black for other formats).
- ***Black Masking Borders***— Borders are optional for AV format screens and standard for all other format screens.
- ***Control Options***—Refer to page 22.



Standard Construction *Offset Construction*



Don R. Daseke '61 Boardroom in the Union Building at DePauw University, Greencastle, IN.

Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format		
50″ x 50″	5′5″	60
60″ x 60″	6′3″	70
70″ x 70″	7′1″	75
84″ x 84″	8′3″	80
72″ x 96″	9′3″	85
96″ x 96″	9′3″	100
7′ x 9′	10′3″	105
9′ x 9′	10′3″	115
8′ x 10′	11′3″	115
10′ x 10′	11′3″	120
9′ x 12′	13′3″	125
12′ x 12′	13′3″	130

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
NTSC Format (4:3)				
6′	42½″ x 56½″	46½″ x 59½″	6′3″	70
7′	50″ x 66½″	53½″ x 69½″	7′1″	75
100″	60″ x 80″	64″ x 83½″	8′3″	80
10′	69″ x 92″	73″ x 96″	9′3″	85
11′	78″ x 104″	83″ x 108″	10′3″	105
150″	87″ x 116″	92″ x 120″	11′3″	115
15′	105″ x 140″	109″ x 144″	13′3″	125

Mounting brackets extend 2″ in length beyond ends of case. Center of mounting holes is 1¼″ from each end of case.

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
HDTV Format (16:9)				
92″	45″ x 80″	49″ x 83½″	8′3″	80
106″	52″ x 92″	56″ x 96″	9′3″	85
119″	58″ x 104″	62″ x 108″	10′3″	100
133″	65″ x 116″	69″ x 120″	11′3″	115
161″	79″ x 140″	84″ x 144″	13′3″	125
WideScreen Format (1.85:1)				
99″	47″ x 87″	51″ x 90″	8′9″	82
108″	50″ x 92″	54″ x 96″	9′3″	85
120″	56″ x 104″	60″ x 108″	10′3″	105
132″	63″ x 116″	67″ x 120″	11′3″	115
162″	76″ x 140″	80″ x 144″	13′3″	125

Ambassador

Complete Envoy and Ambassador specifications: www.draperinc.com

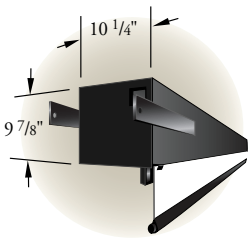
Direct–drive motorized screen with ceiling closure.

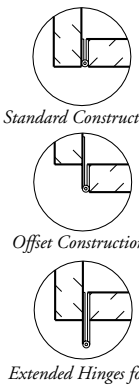
The Draper Ambassador is a direct-drive, heavy-duty, electrically operated screen designed specifically for recessed installation above any type of ceiling.

The Ambassador features a fully automatic ceiling closure, which totally conceals the screen when not in use. The ceiling closure can be finished by the contractor to match the ceiling. Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or High Contrast Grey.

System Options

- ***Extra Drop***—Up to 12′ overall height, either white or black (white is standard).
- ***Black Masking Borders***—optional.
- ***Control Options***—Refer to page 22.





Standard Construction
Offset Construction
Extended Hinges for Attachment of Ceiling Tile (Wt. not to exceed 16 oz./sq. ft.)

Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format		
50″ x 50″	6′2″	105
60″ x 60″	7′	115
70″ x 70″	7′10″	120
84″ x 84″	9′	140
72″ x 96″	10′	155
96″ x 96″	10′	160
7′ x 9′	11′	160
9′ x 9′	11′	170
8′ x 10′	12′	180
10′ x 10′	12′	185
9′ x 12′	14′	205
12′ x 12′	14′	210

Mounting brackets extend 4″ in length beyond ends of case.

Belden Inc., Richmond, IN. Installation by MCSi, Indianapolis, IN.

Rolleramic

Heavy-duty for big-screen presentations.

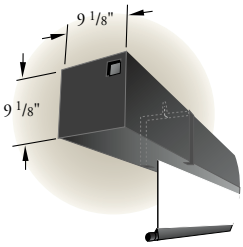
The Rolleramic comes in sizes through 20′ x 20′ or 25′ diagonal to accommodate your biggest presentations. All-wood case may be recessed in the ceiling or painted to match its surroundings. The viewing surface is concealed when not in use; lower it to any position at the touch of a switch. The direct drive module is mounted on rubber vibration insulators.

Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, High Contrast Grey or Panamax viewing surface.

Indiana University School of Law—Indianapolis

System Options

- ***Extra Drop***—Up to 20′ total screen height, either white or black.
- ***Black Masking Borders***—Borders are optional for AV format screens and standard for all other format screens.
- ***Triangular Shaped Steel Slat*** at bottom of projection surface. With screen recessed above ceiling, the triangular slat can be set to stop flush with the ceiling, for a clean installation.
- ***Universal Mounting Brackets***—may be suspended from above, or mounted to wall. Two brackets supplied on screens up to 14′ x 14′. Three supplied on larger screens.
- ***Control Options***—Refer to page 22.



Size HxW	Case Length	Net Wt. (lbs.)	Size HxW	Case Length	Net Wt. (lbs.)	Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format								
50″ x 50″	6′2″	90	9′ x 9′	11′ *	140	12′ x 16′	18′6″	240
60″ x 60″	7′	95	8′ x 10′	12′ *	150	16′ x 16′	18′6″	245
70″ x 70″	7′10″	105	10′ x 10′	12′ *	155	13′6″ x 18′	20′6″	290
84″ x 84″	9′	120	9′ x 12′	14′ *	175	18′ x 18′	20′6″	320
72″ x 96″	10′	130	12′ x 12′	14′ *	180	8′ x 20′	22′6″	310
96″ x 96″	10′	135	10′6″ x 14′	16′6″	210	15′ x 20′	22′6″	350
7′ x 9′	11′ *	135	14′ x 14′	16′6″	220	20′ x 20′	22′6″	380

Hangers extend 2⅝″ above case. *Cases will be 6″ longer with a Panamax viewing surface.

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
NTSC Format (4:3)				
6′	42½″ x 56½″	46½″ x 59½″	7′	95
7′	50″ x 66½″	53½″ x 69½″	7′10″	105
100″	60″ x 80″	64″ x 83½″	9′	120
10′	69″ x 92″	73″ x 96″	10′	130
11′	78″ x 104″	83″ x 108″	11′ *	135
150″	87″ x 116″	92″ x 120″	12′ *	150
15′	105″ x 140″	109″ x 144″	14′ *	175
200″	118″ x 158″	123″ x 162″	16′	210
20′	141″ x 188″	146″ x 192″	18′6″	240
250″	148″ x 198″	153″ x 202″	19′4″	285
25′	177″ x 236″	182″ x 240″	22′6″	350

Complete Rolleramic and Paragon specifications: www.draperinc.com

Paragon

Large projection screen through 28′ wide.

Choose the Paragon for any setting where a very large screen is required. Sizes up to 21′ x 28′, or 35′ NTSC. Newly redesigned case of white extruded aluminum can be suspended anywhere, with controls wherever they're needed. Your choice of a conventional viewing surface: fiberglass matt white or glass beaded.

Peeler Art Center Auditorium, DePauw University, Greencastle, Indiana. Patent pending.

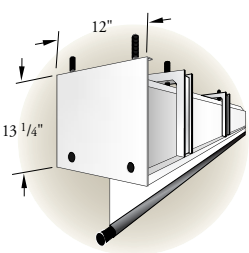
System Options

- ***Extra Drop***—Up to 21′ total screen height, either white or black (white standard on AV format screens, black on all others).
- ***Black Masking Borders***— Borders are optional for AV format screens and standard for all other format screens.
- ***Wall Mount Bracket Kit***—Includes hardware for attaching brackets to case.
- ***Endcap Ceiling Tile Flange Kit***— Extruded aluminum, finished white. Includes hardware for attaching flanges to endcaps.
- ***Ceiling Tile Flange for Case***—12′ length, with hardware for attaching it to case. Please divide length of case requiring trim (in feet) by 12 and round to next whole number to determine number of kits to order. Remember to order trim for both front and back of case if required.
- ***Control Options***—Refer to page 22.

Size HxW	Case Length	Net Wt. (lbs.)	Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format					
15′ x 20′	20′10″	440	18′ x 24′	24′10″	538
20′ x 20′	20′10″	450	24′ x 24′	24′10″	548
11′ x 22′	22′10″	484	13′ x 26′	26′10″	572
16½′ x 22′	22′10″	494	19½′ x 26′	26′10″	582
22′ x 22′	22′10″	504	14′ x 28′	28′10″	616
12′ x 24′	24′10″	528	21′ x 28′	28′10″	626

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
NTSC Format (4:3)				
25′	177″ x 236″	182″ x 240″	20′10″	440
27½′	194″ x 260″	199″ x 264″	22′10″	484
30′	212″ x 284″	217″ x 288″	24′10″	528
32½′	230″ x 308″	235″ x 312″	26′10″	572
35′	248″ x 332″	253″ x 336″	28′10″	616

Optional wall-mounting brackets extend 1¾″ beyond each end of case.



Artisan Series

Featuring hand-crafted cases in solid hardwood or plastic laminate.

Artisan Series projection screens complement the fine furniture in your conference room. They are enclosed in solid hardwood cases with a variety of finishes to match virtually any decor—or in sleek, contemporary plastic laminate. Quiet motor-in-roller operation.

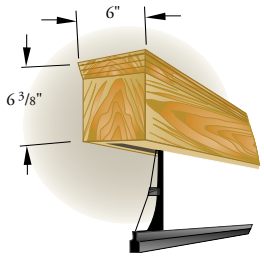
Artisan/Series V—Features Draper's Tab Tensioning System for a perfectly flat projection surface. Choose M1300, M2500 or HiDef Grey. See page 14 for more on the benefits of Tab Tensioning.

Artisan/Series E—Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or High Contrast Grey.

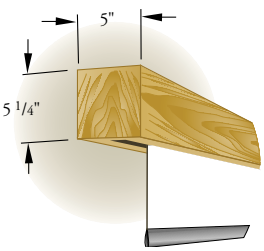
Photography by Barry Rustin, Evanston, IL.

System Options

- ***Case Styles***—Hardwood cases are available in four styles, shown below.
- ***Case Finishes***—Choose from seven hardwoods and five laminates, below. Custom finishes are available.
- ***Extra Drop***—12″ black drop at top of image area is now standard on Series V tab-tensioned screens. Additional drop is optional, either white or black. (White is standard for Series E in AV format. Black is standard for Series E in all other formats and for all Series V.) *Additional drop will increase case and dowel length. Consult Draper if this dimension is critical.
- ***Black Masking Borders***—Borders are optional for Series E in AV format. They are standard for all Series V screens, and for Series E in all other formats.
- ***Control Options***—Refer to page 22.



Artisan/Series V with Traditional Case Style



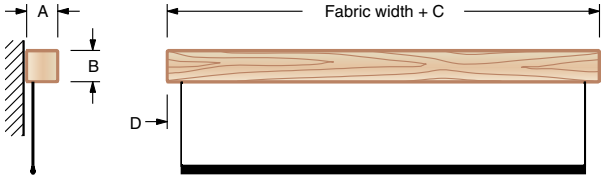
Artisan/Series E with Rectilinear Case Style

Case Styles

Radius *Rectilinear* *Traditional* *Bevel*

These colors match as closely as is possible on the printed page. Samples available for color matching. Custom finishes available.

Case Dimensions



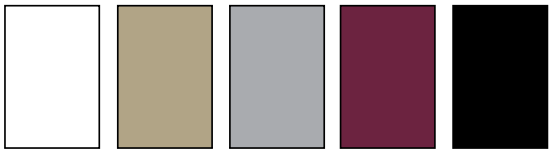
	A	B*	C	D
Series E	5″	5¼″	12″	6″
Series V	6″	6⅜″	—VARIABLE—	

*Add 1⅛″ to height if case is to be bevel style.

Solid Hardwoods

Natural Maple *Natural Cherry* *Light Oak* *Medium Oak* *Walnut* *Medium Cherry* *Mahogany*

Plastic Laminates (rectilinear case style only)



White *Beige* *Dove Grey* *Burgundy* *Black*

Size HxW	Series E Case Length	Series E Net Wt. (lbs.)	Series V Case Length*	Series V Dowel Length*	Series V Net Wt. (lbs.)
Audio Visual Format					
50″ x 50″	5′2″	50	6′1⅝″	5′	55
60″ x 60″	6′	55	7′⅜″	5′11″	60
70″ x 70″	6′10″	60	7′10⅝″	6′10″	70
84″ x 84″	8′	75	9′1⅞″	8′	80
72″ x 96″	9′	80	10′⅝″	9′	85
96″ x 96″	9′	85	10′3⅜″	9′1½″	90

Size Nom. Diag.	Series E Image Area HxW	Series E Case Length	Series E Net Wt. (lbs.)	Series V Image Area HxW	Series V Case Length*	Series V Dowel Length*	Series V Net Wt. (lbs.)
NTSC Format (4:3)							
6′	42½″ x 56½″	6′	55	42½″ x 56½″	6′7⅝″	5′6½″	60
7′	50″ x 66½″	6′10″	60	50″ x 66½″	7′5⅞″	6′4½″	70
100″	60″ x 80″	8′	70	60″ x 80″	8′7⅜″	7′7″	80
10′	69″ x 92″	9′	80	72″ x 96″	10′⅝″	9′	85
HDTV Format (16:9)							
92″	45″ x 80″	8′	70	45″ x 80″	8′7⅛″	7′6″	80
106″	52″ x 92″	9′	80	52″ x 92″	9′7⅝″	8′76″	85
WideScreen Format (1.85:1)							
99″	47″ x 87″	8′6″	70	47″ x 87″	9′2⅝″	8′1″	83
108″	50″ x 92″	9′	80	50″ x 92″	9′7⅝″	8′6″	85

Complete Artisan Series specifications: www.draperinc.com

Premier

Perfectly flat viewing surface delivers perfect image clarity.

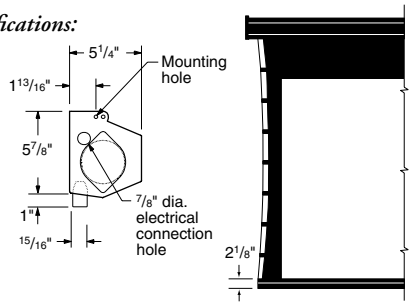
The Premier's automatic Tab Tensioning System delivers incredible picture quality with its perfectly flat viewing surface. The Premier's motor is mounted inside the roller on special vibration insulators, so its operation is smooth and silent.

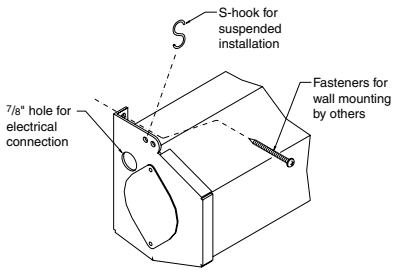
Your choice of M1300, M2500, HiDef Grey or Cineflex rear projection viewing surface. See below for more benefits of Tab Tensioning.

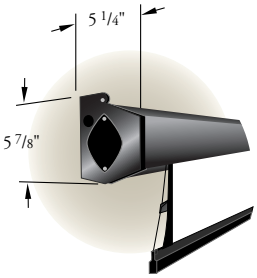
System Options

- ***Extra Drop***—12″ black drop at top of image area is now standard on tab-tensioned screens. Additional drop is optional, up to 12′ overall height, either white or black (black is standard). Extra drop will increase the overall length of the case.
- ***Black Masking Borders***—Standard for all formats.
- ***Projected Mounting Brackets***—provides a 6″ clearance.
- ***Ceiling Opening Trim Kit***—for recessed installations. Available for all sizes of Premier screens. Refer to page 15.
- ***Control Options***—Refer to page 22.

Complete Premier specifications:
www.draperinc.com







Size HxW	Case Length*	Dowel Length*	Net Wt. (lbs.)
Audio Visual Format			
50″ x 50″	5′8″	5′	30
60″ x 60″	6′6¾″	5′11″	35
70″ x 70″	7′5″	6′10″	40
84″ x 84″	8′8¼″	8′	50
72″ x 96″	9′7″	9′	55
96″ x 96″	9′9¾″	9′1½″	60
7′ x 9′	10′8¼″	10′	70
9′ x 9′	10′9¾″	10′2″	75
8′ x 10′	11′9¾″	11′1½″	80
10′ x 10′	11′11½″	11′3¾″	85
9′ x 12′	13′9¾″	13′2″	90
12′ x 12′	14′3½″	13′5½″	100

Size Nom. Diag.	Image Area HxW	Case Length*	Dowel Length*	Net Wt. (lbs.)
NTSC Format (4:3)				
6′	42½″ x 56½″	6′2″	5′6½″	35
7′	50″ x 66½″	7′1¼″	6′4½″	40
100″	60″ x 80″	8′1¾″	7′7″	50
10′	72″ x 96″	9′7″	9′	55
11′	78″ x 104″	10′4¼″	9′8″	65
150″	87″ x 116″	11′4¼″	10′9½″	78
15′	108″ x 144″	13′9¾″	13′2″	90
HDTV Format (16:9)				
92″	45″ x 80″	8′1½″	7′6″	50
106″	52″ x 92″	9′2″	8′6″	58
119″	58″ x 104″	10′2″	9′7″	65
133″	65″ x 116″	11′3″	10′7″	75
161″	80″ x 140″	13′4¼″	12′8″	80

Size Nom. Diag.	Image Area HxW	Case Length*	Dowel Length*	Net Wt. (lbs.)
WideScreen Format (1.85:1)				
99″	47″ x 87″	8′9″	8′1″	55
108″	50″ x 92″	9′2″	8′6″	58
120″	56″ x 104″	10′2″	9′7″	65
132″	63″ x 116″	11′3″	10′7″	75
162″	76″ x 140″	13′4¼″	12′8″	80

*Extra drop increases length of case and dowel. Case may be recessed mounted. Dowel clearance for recessed mounting equals dowel length plus 1″.

Tab Tensioning System

Our improved Tab Tensioning System has a sleek look. Draper changed the roller and attachment method, so no irregularities mar the smoothness of the viewing surface. The entire surface is flatter than ever before, and the dowel caps are now removable allowing you to adjust the surface flatness when necessary. Smaller tabs and a smaller diameter tension cable make the tensioning system less visible.

Tab Tensioning is preferred for perfect picture quality—the flatter the surface the clearer the image. Computer-driven data and graphics presentations, as well as large-screen video images, always look their best on a tensioned screen.

You'll find these benefits on all Premier and Series V and C screen models: Signature, Access, Ultimate Access, Access Sonata, Access MultiView, Premier, Silhouette, and Artisan. Now standard with 12″ of black drop at the top of the viewing area.

Targa

Motor-in-roller design for smooth, quiet operation.

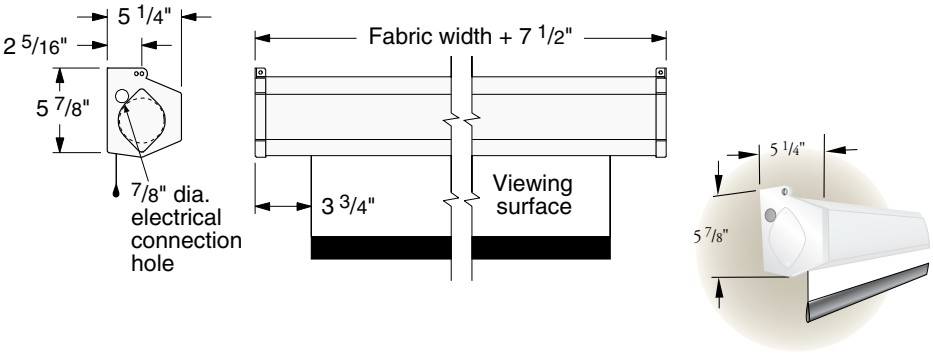
Targa—for value and reliability. Draper's motor-in-roller design allows viewing surface to be centered in its one-piece, white steel case for a trim, balanced appearance. The motor is mounted inside the roller on special vibration insulators, so operating noise is dramatically reduced.

Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, High Contrast Grey, Panamax or acoustically transparent AT1200 or AT Grey.

System Options

- ***Extra Drop***—Up to 12′ overall height, either white or black (white is standard for AV format, black for other formats).
- ***Black Masking Borders***—Borders are optional for AV format screens and standard for all other format screens.
- ***Projected Mounting Brackets***—6″ clearance for wall-mounted equipment below screen.
- ***Ceiling Opening Trim Kit***—for recessed installations. Available for all sizes of Targa screens. See below.
- ***Larger sizes now available.***
- ***Control Options***—Refer to page 22.

Spruce Grove Alliance Church, Spruce Grove, Alberta, Canada. Photo courtesy of Inland AV, Canada.



Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format		
50″ x 50″	4′8½″	26
60″ x 60″	5′6½″	30
70″ x 70″	6′4½″	35
84″ x 84″	7′6½ ″	40
72″ x 96″	8′7″	44
96″ x 96″	8′7″	45
7′ x 9′	9′7″	47
9′ x 9′	9′7″	49
8′ x 10′	10′7″	54
10′ x 10′	10′7″	58
9′ x 12′	12′7″	61
12′ x 12′	12′7″	66

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
NTSC Format (4:3)				
6′	42½″ x 56½″	46½″ x 59½″	5′6½″	30
7′	50″ x 66½″	53½″ x 69½″	6′4½″	35
100″	60″ x 80″	64″ x 83½″	7′6½″	40
10′	69″ x 92″	73″ x 96″	8′7″	44
11′	78″ x 104″	83″ x 108″	9′7″	47
150″	87″ x 116″	92″ x 120″	10′7″	54
15′	105″ x 140″	109″ x 144″	12′7″	61
200″	118″ x 158″	123″ x 162″	14′1″	68

Case dimensions—5 3/16″ high x 5¼″ wide.
Hanging brackets extend ⅝″ above screen case.

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
HDTV Format (16:9)				
92″	45″ x 80″	49″ x 83½″	7′6½″	40
106″	52″ x 92″	56″ x 96″	8′7″	44
119″	58″ x 104″	62″ x 108″	9′7″	46
133″	65″ x 116″	69″ x 120″	10′7″	54
161″	79″ x 140″	84″ x 144″	12′7″	61
184″	90″ x 160″	95″ x 164″	14′3″	68
WideScreen Format (1.85:1)				
99″	47″ x 87″	51″ x 90″	8′1″	40
108″	50″ x 92″	54″ x 96″	8′7″	44
120″	56″ x 104″	60″ x 108″	9′7″	49
132″	63″ x 116″	67″ x 120″	10′7″	54
162″	76″ x 140″	80″ x 144″	12′7″	66
182″	86½″ x 160″	91½″ x 164″	14′3″	68

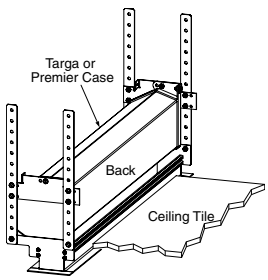
Complete Targa specifications: www.draperinc.com

Ceiling Opening Trim Kit

For ceiling-recessed Targa and Premier screens.

Trims out the opening and forms a finished slot in the ceiling allowing for passage of the viewing surface. Attaches to screen end caps. Painted white to match ceiling grid. This accessory results in a professional, attractive ceiling-recessed installation. Our finished slot is always flush, square, attractive and the same length as the screen case. Slot includes finished flange to accept acoustical ceiling tile or grid. Slot measures only 2⅛″ in width.

With Draper's Ceiling Opening Trim Kit, the slot is always exactly the right size and in precisely the right location.



Salara

You've never seen a screen like this before.

NEW

In your home or office, the Salara makes a design statement.

The Salara's small, elliptical case and domed endcaps are finished in solid white. Floating gunlatch, wall-mounting brackets grip the screen case securely and are barely visible. Power connection is via back of case.

The result—the most attractive screen you've ever seen.

Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, High Contrast Grey, ATI200 or AT Grey.

System Options

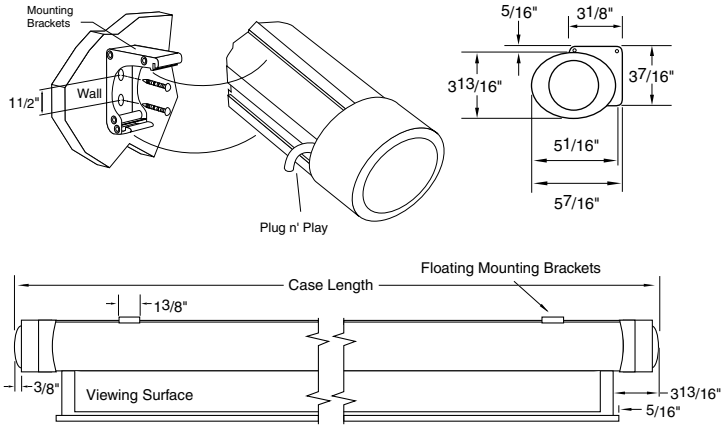
- ***Extra drop***—Up to 8′ overall height, either white or black (white is standard for AV format, black for other formats).
- ***Black masking borders***—Borders are optional for AV format screens and standard for all other format screens.
- ***Control options***

  Hardwired—Wired like other Draper motorized screens. Can be furnished with any standard control options.

  Hardwired with built-in RF receiver—This version includes a hand-held radio frequency remote control. Motor is hardwired like all standard Draper motorized screens. Wireless wall switch is optional.

  Hardwired with built-in IR receiver—This version includes a hand-held infrared remote control. IR receiver is built into the endcap and includes additional interface for dry contact closure and RS232. Motor is hardwired like all standard Draper motorized screens.

  Plug & Play™ Version—With Draper's all new Plug & Play option, you can have a remote controlled screen on your wall in just 10 minutes—no electrician required. Plug & Play includes a built-in receiver and hand-held transmitter in your choice of RF or IR. It also includes 10′ of IEC cord, which plugs into socket in the back of the case and the nearest wall outlet. Wireless wall switch is optional for RF version.



Back view of Salara case showing Plug & Play option. Patent pending.

Hand-held RF remote control

Optional wireless wall switch.

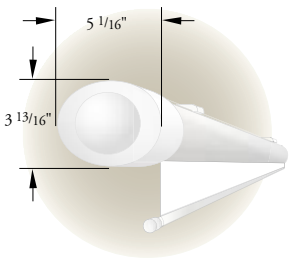
Hand-held IR remote control

Built into the endcap, Draper's MC1 enables IR, additional interface for dry contact closure and RS232. Programmable.

Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format		
50″ x 50″	4′9⅛″	23
60″ x 60″	5′7⅛″	26
70″ x 70″	6′5⅛″	30
84″ x 84″	7′7⅛″	35
72″ x 96″	8′7⅝″	38
96″ x 96″	8′7⅝″	41

Complete Salara specifications: www.draperinc.com

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
NTSC Format (4:3)				
6′	42½″ x 56½″	46½″ x 59½″	5′7⅛″	25
7′	50″ x 66½″	53½″ x 69½″	6′5⅛″	29
100″	60″ x 80″	64″ x 83½″	7′7⅛″	34
10′	69″ x 92″	73″ x 96″	8′7⅝″	38
HDTV Format (16:9)				
92″	45″ x 80″	49″ x 83½″	7′7⅛″	32
106″	52″ x 92″	56″ x 96″	8′7⅝″	37
WideScreen Format (1.85:17				
99″	47″ x 87″	51″ x 90″	8′1⅝″	34
108″	50″ x 92″	54″ x 96″	8′7⅝″	37



Silhouette

High tech appearance.

We changed the appearance of projection screens with a revolutionary case design. The Silhouette's case conceals everything:

• Mounting fixtures • Fasteners • Electrical connections

• Optional controls • Dowels retract inside case

The innovative case installs cleanly, and the front fascia removes easily for access to the inside components. Its slender fascia and endcaps are made of gently radiused aluminum and presents a strikingly modern appearance.

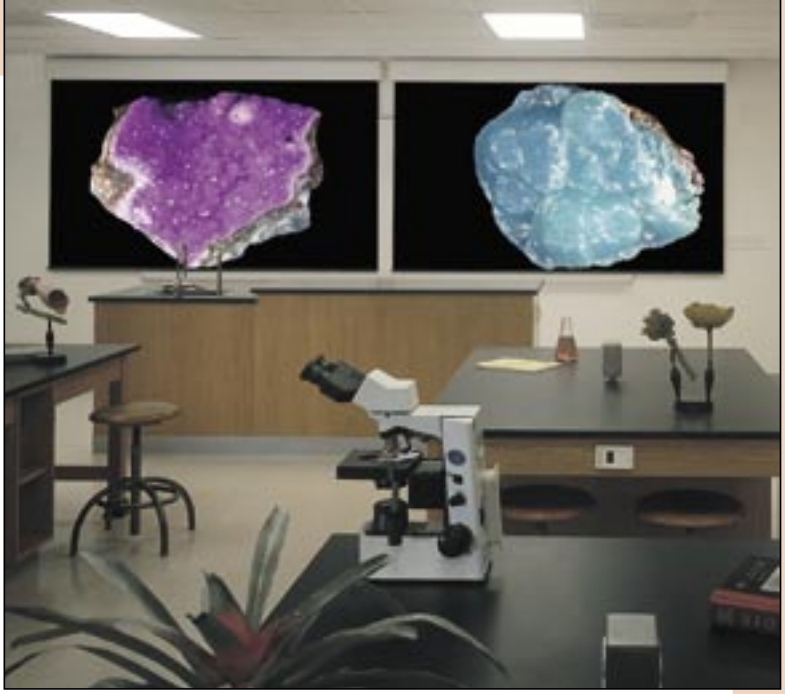
There is no need to conceal the Silhouette—it will complement the other high-tech equipment in your room.

Silhouette/Series V—Features Draper's Tab Tensioning System for a perfectly flat projection surface. Choose M1300, M2500, HiDef Grey or Cineflex rear projection viewing surface. See page 14 for more on the benefits of Tab Tensioning.

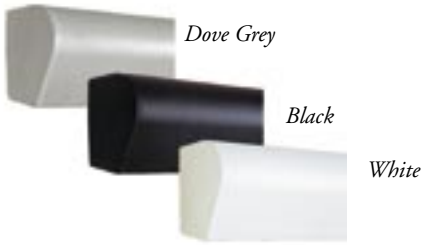
Silhouette/Series E—Your choice of a conventional viewing surface: fiberglass matt white, glass beaded, High Contrast Grey or acoustically transparent AT1200 or AT Grey.

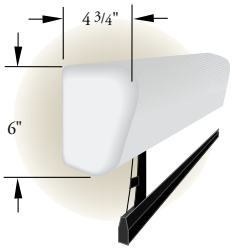
System Options

- ***Case Finishes***—Choose a dove grey (standard), black or white lightly textured finish (see at right).
- ***Extra Drop***—12″ black drop at top of image area is now standard on Series V tab-tensioned screens. Additional drop is optional, either white or black. (White is standard for Series E in AV format. Black is standard for Series E in all other formats and for all Series V screens). Extra drop will increase the overall length of the case of a Series V screen.
- ***Black Masking Borders***—Borders are optional for Series E in AV format. Borders are standard for Series E in all other formats and for all Series V screens.
- ***Control Options***—Refer to page 22. Controls may be built into case and will increase the overall length of the case.

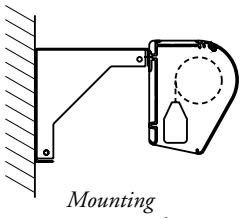


Lapham Hall, University of Wisconsin-Milwaukee. Installation by SPL Integrated Solutions. Photography by Barry Rustin, Evanston, IL. U.S. Patent Nos. 5,296,964 and 6,111,694.

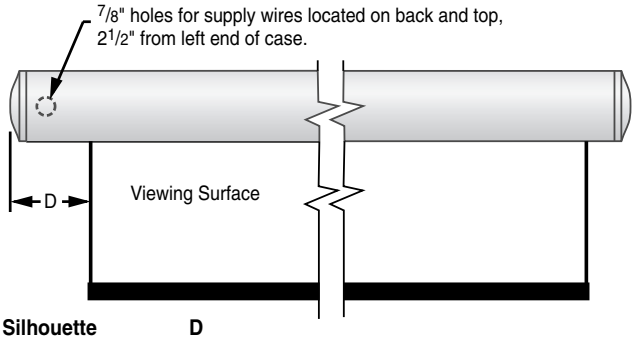




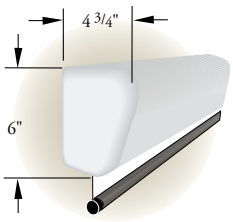
Silhouette/Series V



Mounting on optional Extension Wall Brackets



Silhouette	D
Series E	5 5/16"
Series V	Varies



Silhouette/Series E

Size HxW	Series E Case Length*	Series E Net Wt. (lbs.)	Series V Case Length*	Series V Dowel Length*	Series V Net Wt. (lbs.)
Audio Visual Format					
50″ x 50″	5′1½″	27	6′¾″	5′	33
60″ x 60″	5′11½″	29	6′11¾″	5′11″	35
70″ x 70″	6′9½″	34	7′9¾″	6′10″	40
84″ x 84″	7′11½″	40	9′1″	8′	46
72″ x 96″	9′	48	9′11¾″	9′	57
96″ x 96″	9′	53	10′2½″	9′1½″	59

*Built-in controls or extra drop may increase case and/or dowel length. Consult factory if this dimension is critical.

Complete Silhouette Series specifications: www.draperinc.com

Size Nom. Diag.	Series E Image Area HxW	Series E Case Length*	Series E Net Wt. (lbs.)	Series V Image Area HxW	Series V Case Length*	Series V Dowel Length*	Series V Net Wt. (lbs.)
NTSC Format (4:3)							
6′	42½″ x 56½″	5′11½″	26	42½″ x 56½″	6′7¼″	5′6½″	39
7′	50″ x 66½″	6′9½″	31	50″ x 66½″	7′5¼″	6′4½″	43
100″	60″ x 80″	7′11½″	37	60″ x 80″	8′7¾″	7′7″	47
10′	69″ x 92″	9′	45	72″ x 96″	9′11¾″	9′	54
HDTV Format (16:9)							
92″	45″ x 80″	7′11½″	37	45″ x 80″	8′6¾″	7′6″	50
106″	52″ x 92″	9′	45	52″ x 92″	9′6¾″	8′6″	54
WideScreen Format (1.85:1)							
99″	47″ x 87″	8′6″	38	47″ x 87″	9′1¾″	8′1″	47
108′	50″ x 92″	9′	45	50″ x 92″	9′6¾″	8′6″	54

Revelation

You won't see or hear the projector.

NEW FEATURE

The Revelation is totally different from traditional projector lifts and mounts. The Draper Revelation permanently conceals the projector—and its noise—above the ceiling at all times. Other products typically lower the projector into the room from a ceiling recess, or lift it into the seating area from a table hideaway.

You'll be astonished by what you see—and don't see—*and don't hear*—when your projector is mounted in a Revelation. You won't see or hear the projector—not before, during or after the show. You'll only see a hinged door in the ceiling, finished in white baked textured powdercoat.

Available in two models, Revelation A and Revelation B both require only 13⅝″ of space above the ceiling, and both can be installed to match a 2′ x 2′ ceiling grid spacing, or used with reveal-style grid ceilings (like Armstong's Silhouette-style grid system).

Draper upgraded the Revelation's dual first surface mirror system to thicker (10 mm) optical grade glass mirrors that are 94% reflective for optimum flatness and reflectivity. A modification to both Revelations allows more space for the projectors and accommodates a wider variety of projectors, including those with offset lenses.

Combine the Revelation with a ceiling-recessed Draper projection screen and take your projection showmanship to a new level. The Revelation A and B are compatible with a wide variety of LCD/DLP projectors.

System Options

- ***Plenum Enclosure***—Aluminum enclosure for use in return air plenum. Includes intake and exhaust fan system with 4″ couplers for connection to ventilation ducts.
- ***Ceiling Access Door***—A 2′ x 2′ hinged door provides access to the Revelation above a finished ceiling for cleaning, maintenance or repairs without having to damage the ceiling. Available with a white painted finish, or recessed to accept ceiling tile.
- ***Glass Shield***—Made of anti-reflective glass and installed between the Revelation and the first surface mirror/ceiling closure. Reduces projector noise by an additional 80%, and prevents cigarette smoke, grease or other harmful substances from reaching the projector. Virtually none of the projected light is lost as it passes through the Shield.
- ***Control Options***—Refer to page 22.

Draper Revelation projector mount and Access/E projection screen at DTE Energy, Detroit. Dealer: City Animation, Troy, MI. Architect: Ford & Earl Associates, Inc., Troy, MI. U.S. Patent No. 6,379,012.
Complete Revelation specifications: www.draperinc.com

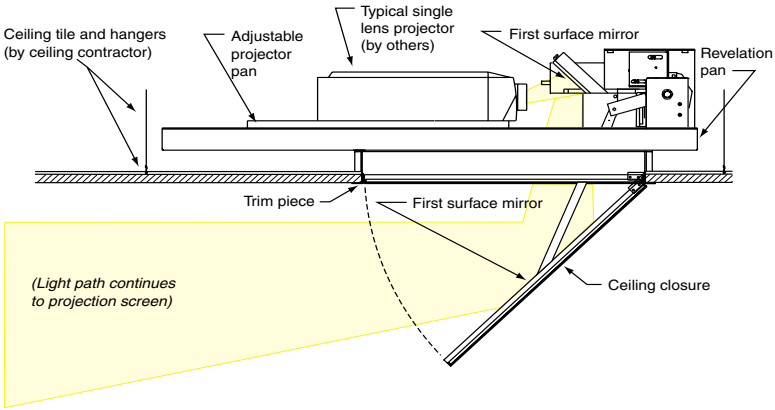
Revelation	*Model A*	*Model B*
Overall unit size (HWL)	13″ x 38¼″ x 34″	13″ x 38¼″ x 44″
Required space above ceiling*	13⅝″ x 38¼″ x 34″	13⅝″ x 38¼″ x 44″
Clearance below ceiling	approx. 17″	approx. 17″
Rough ceiling opening for motorized door	23½″ x 23½″	23½″ x 23½″
Capacity	100 lbs.	100 lbs.
Door's downward travel distance	approx. 17″	approx. 17″
Travel time	9 sec.	9 sec.
Net weight	85 lbs.	90 lbs.

Projector space (HWL)—To fit within limits of inner pan. Request a planning sheet.
* 13⅝″ is overall height of Revelation with plenum housing (13″ *without* plenum).

Electrical Specifications

Operating voltage		110–120 VAC 50–60 Hz
Amperes		1 Amp**
Control voltage		12 VAC
Motor specifications:	Voltage	110–120 VAC 50–60 Hz
	Amps	.43

** Does not include any load placed on internal outlet.

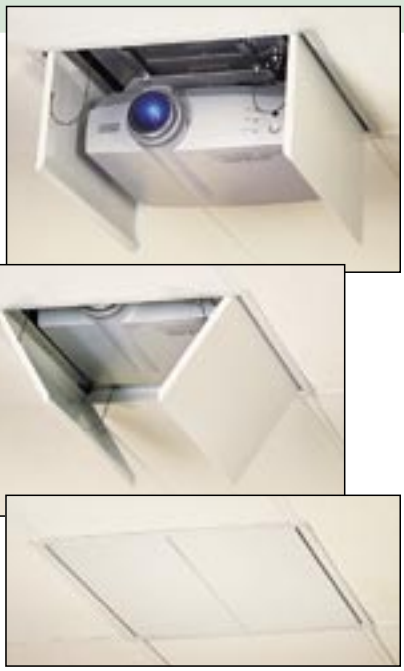


LCD Lift

Compact, lightweight lift fits most LCD/DLP projectors.

Bomb bay doors and a slim cross-section distinguish the LCD Lift. Most popular LCD/DLP/LCOS projectors fit comfortably inside this unit. Available in two sizes—Model A and Model B.

Plenum housing of aluminum, with closure doors finished in white. Contains internal switched duplex receptacle, 115V AC, which is powered when the unit is fully down. The LCD Lift contains an innovative current sensor that delays closing of the unit until the projector fan has shut off. Lifting capacity 65 lbs.

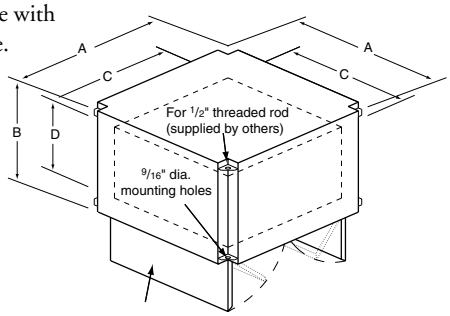


System Options

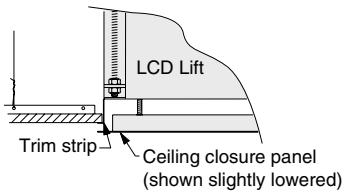
- ***Ceiling Closure Panel***—Universal steel ceiling closure in a white baked enamel finish, or recessed to accept ceiling tile.
- ***Ceiling Access Door***—A 2′ x 2′ hinged door provides access to lift above a finished ceiling for cleaning, maintenance or repairs without having to damage the ceiling. Available with a white painted finish, or recessed to accept ceiling tile.
- ***Aero Low Profile Mount***—Fixed mount attaches to projector lift and combines with Draper's Aero Universal Projector Bracket for projectors weighing less than 26 pounds. Details on page 20.
- ***Factory installed cables*** for RGB, Video and Control.
- ***Control Options***—Operated by one 115V rocker switch. For more options, refer to page 22.

Complete LCD Lift and AeroLift 25 specifications: www.draperinc.com

LCD Lift	*Model A*	*Model B*
A	24″	29″
B	17¾″	22¾″
C	18″	23″
D	11″	16″



LCD Lift shown (above) with standard bomb bay closure and (detail below) with optional flat closure. Dimensions in chart are based on standard closure.



AeroLift 25

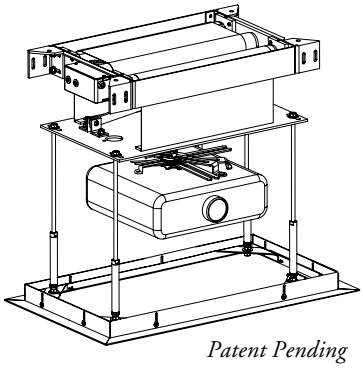
With the smallest footprint and height.

The all-new and very cleverly designed AeroLift 25 has the smallest footprint and height of any video projector lift. It installs easily between standard 2″ thick ceiling joists on 16″ centers.

The AeroLift 25 will accommodate any LCD/DLP/LCOS projector weighing 25 pounds or less. It's powered by a strong tubular motor for a simplified design, and features a stabilizing arm which can also be used for cable management.

Its built-in adjustability allows you to deal with job site conditions quickly and easily, like slightly out of square or irregularly spaced joists. All components can be serviced from below. Projector can be mounted flush to bottom pan, or with Aero Low Profile Lift Bracket (shown). Aero bracket enables instant registration of projected image.

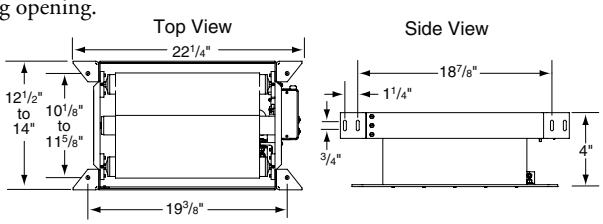
The standard control for the lift is simple and easy to use. It can be integrated into other low voltage control systems. *Note: The AeroLift 25 can also be used to recess speakers, security cameras, videoconferencing cameras or document cameras.*



Patent Pending

System Options

- ***Ceiling closure panel***—Universal steel ceiling closure in a white baked enamel finish, or recessed to accept ceiling tile.
- ***Plenum housing***—Height varies according to choice of projector. Includes ceiling trim ring. Does not include ceiling closure panel.
- ***Ceiling finish kit***—Ceiling closure panel and ceiling trim ring to finish ceiling opening.



AeroLift 25

Height of lift in closed position [1]	4″
Maximum overall lift dimensions (WxL)	22¼″ x 14″
Ceiling opening (with small closure)	23⅜″ x 14 1⁄16″
Optional plenum housing (small size) (WxL) [2]	14 9⁄16″ x 23⅞″
Max. projector size (with small closure) (WxL) [3]	8¾″ x 18″
Max. down travel	20″
Approx. travel time to lowest position	14 sec.
Total lift capacity (lbs.) [4]	25
Net weight of lift (lbs.) [5]	20
Amperes	1.2

[1] Not including projector, mount or closure. Optional Aero Low Profile Mount adds 4⅞″ to height, including Universal Projector Bracket.
[2] Maximum plenum height: 20½″. Min. plenum height: 12½″.
[3] Maximum available projector/bracket height (with plenum): 15¾″. Minimum available projector/bracket height (with plenum): 7¾″.
[4] Small closure weighs 7½ lbs. Large closure & angle brackets weigh 10 lbs.
[5] Unit only: does not include projector, mount, plenum or closure.

Micro Projector Lift

Designed for today's smaller projectors.

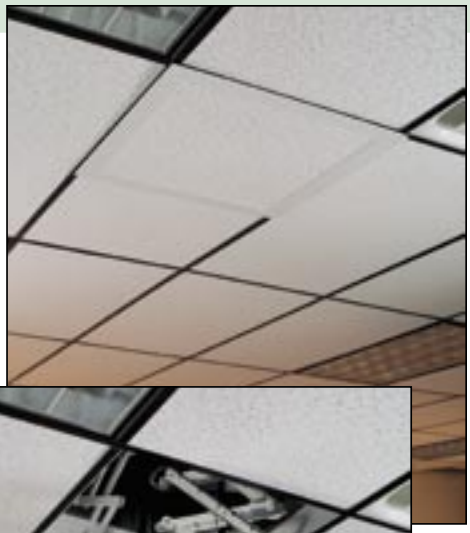
The Micro Projector Lift (MPL) is small and convenient, just like the projectors it is designed to accommodate. Weighing only 35 pounds, it can be installed in an existing 2′ x 2′ ceiling opening without disturbing ceiling framework.

All components can be serviced from below the unit. The projector's "show" position can be set at any point—with infinite adjustability—up to 48″ extension.

The Micro Projector Lift utilizes the same exclusive 3-scissor design as Draper's popular Scissor Lift, but features a compact side-folding scissor.

The load is lifted by two 1″ wide Kevlar® straps. Safety belt provides extra protection.

Closed height of lifting unit is only 5″ tall (not including projector, mounting mechanism or closure), so a minimal amount of overhead ceiling space is required.



U.S. Patent No. D395,909 and 6,637,711. Other patents pending

System Options

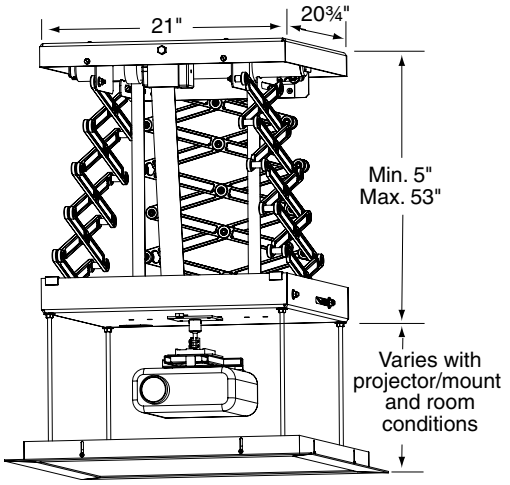
- ***Ceiling closure panel***—Universal steel ceiling closure in a white baked enamel finish, or recessed to accept ceiling tile.
- ***Plenum housing***—Height varies according to choice of projector. Includes ceiling trim ring. Does not include ceiling closure panel.
- ***Ceiling finish kit***—Ceiling closure panel and ceiling trim ring to finish ceiling opening.
- ***Ceiling Access Door***—A 2′ x 2′ hinged door provides access to the MPL above a finished ceiling for cleaning, maintenance or repairs without having to damage the ceiling. Available with a white painted finish, or recessed to accept ceiling tile.
- ***Projector mounting bracket***—The Aero Low Profile Mount is described below. Projector may also be mounted flush to bottom pan.
- ***Factory installed cables*** for RGB, Video and Control.
- ***Controls***—Described on page 22.

Micro Projector Lift

Height of lift in closed position [1]	5″
Overall lift dimensions (WxL)	21″ x 20¾″
Ceiling opening	23½″ x 23½″
Optional plenum housing (trim edge to trim edge) [2]	23⅞″ x 23⅞″
Max. projector size (WxL) [3]	20″ x 20″
Max. down travel	4′
Capacity (lbs.)	35
Capacity with Aero Low Profile Mount (lbs.)	26
Net weight of lift (lbs.)	35
Amperes [4]	1.2

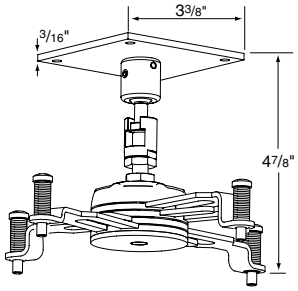
[1] Not including projector, mount or closure. Optional Aero Low Profile Mount adds 4⅞″ to unit height including Universal Projector Bracket.
[2] Max. plenum height: 20″. Min. plenum height: 12″
[3] Max. available projector/bracket height (with Plenum): 13½″
Min. available projector/bracket height (with Plenum): 5½″
[4] Does not include any load placed on MPL's pre-wired power cable.

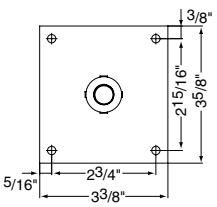
Kevlar® is a registered trademark of DuPont.



Aero Low Profile Mount

Attach your projector to the Micro Projector Lift, Scissor Lift, LCD Lift or AeroLift 25 with the optional Aero Low Profile Mount. Provides easy release of projector, 360° rotation, 30° pitch and roll, with minimal head space between projector and pan. Available with Aero Universal Projector Bracket for projectors under 26 pounds and designed for inverted mounting with threaded mounting holes.





Scissor Lift—SL Series

"Store, show and service" positions.

Draper's Scissor Lift will retract your projector to ceiling level or above when not in use, then lower it to the exact projection and service positions you require. Draper factory sets all three positions—"store", "show" and "service"—to your specifications. Adjustments are easy after installation.

Scissors on the left, right and back sides of the unit stabilize the projector from any sway both laterally and front–to–back.

Scissor Lift models SL4–SL10 feature a small footprint: 23″ w x 23½″ l.

Projector can be bolted directly to the lift's bottom pan, or mounted with the optional Aero Low Profile Mount (see page 20). The movement of the pan is driven by a gearmotor with a powerful, reliable metal chain drive system. Each lift is equipped with a fail-safe inertial safety belt system, and a Cable Management System that includes a pre-wired power cable on the back scissor, bringing 110v current right to your projector.

Operation is 115v; switching is 12v. Lifting capacity is 350 lbs.

Scissor Lift—SLX Series

Lowers projector up to 17′!

Seven Scissor Lift models offer "service" positions ranging from 11′ to 17′. A slightly larger footprint (27″ w x 29½″ l) allows for the extended travel with no loss of stability. Lifting capacity is 350 lbs.

Indiana University School of Law—Indianapolis.
U.S. Patent No. D395,909

Scissor Lift SL Series							
Model Number	***SL4***	***SL5***	***SL6***	***SL7***	***SL8***	***SL9***	***SL10***
Height of lift in closed position [1]	8⅛″	9⅛″	10⅛″	11⅛″	12⅛″	13⅛″	14⅛″
Max. down travel (service position)	4′	5′	6′	7′	8′	9′	10′
Approx. travel time to service position	36 sec.	45 sec.	54 sec.	63 sec.	72 sec.	81 sec.	90 sec.
Net weight (lbs.)	120	125	130	135	140	145	150
Scissor Lift SLX Series							
Model Number	***SLX11***	***SLX12***	***SLX13***	***SLX14***	***SLX15***	***SLX16***	***SLX17***
Height of lift in closed position [1]	13¾″	15¾″	15¾″	16¾″	16¾″	18¾″	18¾″
Max. down travel (service position)	11′	12′	13′	14′	15′	16′	17′
Approx. travel time to service position	99 sec.	108 sec.	117 sec.	125 sec.	134 sec.	143 sec.	152 sec.
Net weight (lbs.)	160	165	170	175	180	185	190

[1] Only height of Scissor Lift in closed position. Overall height of projector, plus optional mount, plus optional ceiling closure, plus optional plenum housing adds to overall height of equipment installed above ceiling. Aero Low Profile Mount and Aero Universal Projector Bracket add 4⅞″ to height.

Optional Ceiling Closure Panels for SL & SLX Series—Universal steel ceiling closure, with a recess to accept ceiling tile, or with a smooth surface finished in white. Six sizes available. Select size based on maximum size of projector or other equipment being used. See specifications on the Web at http://www.draperinc.com/Lifts_Mounts_Brackets/Scissor_Lift.htm.

System Options

- ***Ceiling closure panel***—Universal steel ceiling closure in a white baked enamel finish, or recessed to accept ceiling tile.
- ***Plenum housing***—Height varies according to choice of projector. Includes ceiling trim ring. Does not include ceiling closure panel.
- ***Ceiling finish kit***—Ceiling closure panel and ceiling trim ring to finish ceiling opening.
- ***Factory installed cables*** for RGB, Video and Control.
- ***Decorative Cover***—An accordion-action shroud that completely covers all 4 sides of the Scissor Lift SLX above the projector. White cover conceals scissors in the "show" position. Detaches automatically at pan when lift extends to "service" position. Maximum extension of cover is 48″. Compatible with optional Ceiling Closure Panels S, E, J and G.
- ***Controls***—Described on page 22.

Additional Data

- ***Amperes***: 2.6 (Does not include any load placed on Scissor Lift's prewired power cable.)
- ***Show Position:*** Set at factory. Can specify at time of order.
- ***Max. projector height:*** Limited only by available space above the ceiling if recessed.
- ***Minimum clear space above finished ceiling:*** Will vary according to height of projector and options selected.

Controls for Motorized Screen and Video Projector Lifts

❶

Standard switch for motorized screens, MPL, Revelation and AeroLift 25

Standard switch for LCD Lift

❶

Standard switch for Scissor Lift

Single Station Control ❶—Standard with most Draper electrically operated screens and all Draper video projector lifts. One 3-position rocker switch: 115v for all motorized screens, LCD Lift, AeroLift 25 and Micro Projector Lift; 24v for Revelation; one 3-position 12v toggle switch for Scissor Lift (with momentary key switch for service position). Switch operation is maintained contact. Complete with stainless steel cover plate. UL listed.

115 Volt Multiple Station Controls ❶—Identical in appearance to Single Station Control, see above. Automatic override allows only one signal to reach the motor when switches are operated simultaneously.

****Low Voltage Controls*** ❷ *&* ❸—Install switches everywhere they're needed, add wireless transmitter (below) or interface with a master control system. Three-button switches have neutral decorator face plates for flush wall mounting. The Low Voltage Control unit is also equipped with jacks for easy connection to Draper RF and IR receivers (see below). Wiring from control unit to switches or receivers is lightweight for 24 volt current. Optional for all Draper motorized screens, except Access Sonata, and all Draper video projector lifts.

❸

❷

****Radio Frequency Remote Control*** ❷ *&* ❹—Hand-held transmitter. 3-button control lets you raise or lower screen or adjust format at any point. Receiver plugs into the Draper Low Voltage Control unit (required, see above).

❹

****Infrared Remote Control*** ❷ *&* ❺—Infrared transmitter and receiver. 3-button operation for instant access to "up", "down" and "stop" functions. Fully compatible with "learnable" IR master control systems. Receiver plugs into the Draper Low Voltage Control unit (required, see above).

❺

Key Operated Power Supply Switch ❻—Useful with any control system for a Draper electrically operated projection screen or a Draper projector lift—low voltage or 115v. Key switch mounts next to operating switch and controls power to it.

❻

Locking Switch Cover Plate ❼—A 3-position control switch for limited access. Cover plate and locking switch cover are brushed stainless steel. Two keys furnished. 115v only.

❼

Key Operated 3-Position Switch ❽—Similar to Draper's standard 3-position control switch, but requires a key for operation. 115v and low voltage style available. When used alone, a maintained contact switch is provided. With Low Voltage Control ❷, a momentary contact switch is provided and the low voltage control functions as a latching relay, so the screen will operate all the way up or down when the switch is activated. Two keys furnished.

❽

Individual/Group Control for more than one screen per room— The IGC-3N1 is a specialized low voltage control system designed for rooms with two or more motorized screens. Depending on the switches and remote transmitters that are ordered with the control, it is possible to operate screens in tandem, separately or both. Operates up to three motors individually or simultaneously.

IGC-3N1

****Video Interface Control***—Operate a Draper video projector lift in tandem with a Draper motorized projection screen using the Video Interface Control. The VIC replaces the screen's switch; for the projector lift, use the standard switch or any control described above. Touch the switch—or wireless remote control—and the video projector lift and projection screen descend. At the end of the presentation, flip the switch and the lift and screen will rise automatically. Not available for MPL and AeroLift 25. Model VIC115 integrates screen operation with equipment with a 115v switched outlet. Models VIC12 & VIC6 interface screen operation with equipment featuring a 12v/6v output. The VIC115, VIC12 & VIC6 may be purchased with an override switch (VIC–OS), permitting independent operation. ***A VIC is not compatible with an LVC-III, built-in or otherwise.***

VIC-115

VIC-6 or VIC-12

**These optional controls may be factory-installed into the case of Access, Ultimate Access and Silhouette screens at no extra charge. Built-in controls may increase length of case, except for the Ultimate Access series. Call for exact dimension if critical. Choose either an LVC-III with or without a wireless transmitter, or choose a VIC. LVC-III and VIC are not compatible on a single motor, built-in or otherwise. Both may be used in an Access MultiView, which has two independently controlled motors.*

Controls for Access Sonata—A programmable low voltage 6-button wall switch that Draper presets with four format settings is standard. Change to any format at the touch of *one* button! This switch is compatible with multiple stations and the optional Sonata IR remote control.

Sonata wall switch

Aero Mounts & Aero Accuset Mounts

For LCD/DLP projectors.

When the choice is to suspend your LCD or DLP projector from the ceiling, look to Draper as your single source for mounting hardware. We've designed a full line of mounts that are sophisticated in appearance, functional in their abilities and installer-friendly.

Inspired Design

Draper mounts are designed specifically for today's smaller LCD and DLP projectors.

Function and Form

Aero Mounts (pages 26-27) and Aero Accuset Mounts (pages 24-25) combine stylish appearance with unique features, such as infinite height adjustment, built-in cable management and an infinitely adjustable ball joint for instant registration of the projected image.

Installer Friendly

The all-new Aero Universal Projector Bracket takes the guesswork out of projector bracket selection, and attaches to your projector in seconds. Its infinite adjustability enables you to quickly find and secure the projector's center of gravity, so projector hangs level. And if you upgrade your projector, there's no need to buy a new bracket.

Draper Aero Mount and Rolleramic projection screen. Earlham College, Richmond, IN. Installation by MCSi, Indianapolis. Patent pending.

Aero Universal Projector Bracket

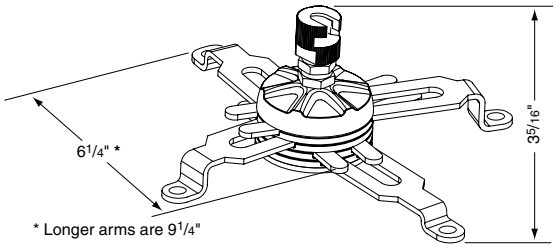
Draper has solved the projector bracket problem with a bracket that fits virtually any LCD/DLP projector.* The Aero Universal Projector Bracket is now standard on all Aero and Aero Accuset projector mounts.

The Aero Universal Projector Bracket is furnished with two sets of horizontal bracket arms—four long and four short—and four threaded vertical spacers. You can mix and match bracket arms as needed to fit your projector. Infinite adjustability both horizontally and vertically enables you to find and secure the projector's center of gravity in seconds, so projector will hang level.

Attach an Aero Universal Projector Bracket to an LCD projector, and then to an Aero Mount or Aero Accuset Mount. Bracket connects easily to the ball joint at the tip of both projector mounts.

*Any LCD/DLP projector designed for inverted mounting, with threaded mounting holes, weighing 26 pounds or less.

An Aero Universal Projector Bracket comes assembled with short bracket arms, but longer bracket arms (included) are interchangeable. Mix and match with the various bolts and threaded vertical spacers (included) as needed for your projector.



Attach an Aero Universal Projector Bracket to a projector, and then to an Aero Mount or Aero Accuset Mount.

Aero Accuset Mounts for LCD/DLP Projectors

Fixed and adjustable length column mounts.

The Aero Accuset family of LCD/DLP projector mounts dramatically increases the number of installations you can address with Draper mounts. Draper now has the solution for any installation—from flush ceiling mounting to 12′ of drop. All mounts include the innovative Aero Universal Projector Bracket* (see page 23). Aero Accuset has five options to choose from, depending on jobsite conditions and your own preferences—

Accuset Component Kit

Consists of Ceiling Plate, Bracket Adapter and Universal Projector Bracket. You furnish 1½″ diameter NPT pipe in your required length. Pipe must be threaded on each end.

Build Your Own Aero Accuset Kit

Order just the pieces you need for your job requirements. Choose from Ceiling Plate, Bracket Adapter, Extension Adapter, Aero Universal Projector Bracket, 1½″ diameter NPT fixed pipe section in 12 available lengths (may be cut to fit at the job site and threaded on each end), and adjustable pipe sections in seven available ranges.

Aero Accuset Adjustable Mount

Consists of Ceiling Plate, two-piece telescoping NPT pipe (2″ diameter upper section and 1½″ diameter lower section) threaded and slotted on each end, in seven adjustable ranges from which to choose (see chart on page 25), Extension Adapter, Bracket Adapter and Aero Universal Projector Bracket.

Exclusive feature—This mount is infinitely adjustable within its specified range to place projector at the preferred height. A positive stop prevents separation of pipe, and the Extension Adapter locks the lower pipe in final position.

All Aero Accuset projector mounts offer infinite adjustment of the projector up to 30° pitch, 30° roll and 360° yaw. Adjustable mounts and fixed extension mounts (see below) provide built-in cable management. Draper's Aero Universal Projector Bracket fits any projector designed for inverted mounting with threaded mounting holes on bottom, and allows you to quickly find and secure the projector's center of gravity. Maximum load is 26 pounds.

Aero Accuset Fixed Extension Mount

Consists of Ceiling Plate, Bracket Adapter, Aero Universal Projector Bracket and one section of 1½″ diameter NPT pipe, threaded and slotted on each end, available in thirteen standard lengths (see chart on page 25).

Aero Accuset Low Profile Mount

Fixed mount for "low profile" ceiling installations with our Aero Universal Projector Bracket. Places top of projector only 4⅞″ from ceiling (may vary slightly according to choice of projector). Ball joint adjusts infinitely up to 30° pitch, 30° roll and 360° yaw. For projectors less than 26 pounds.

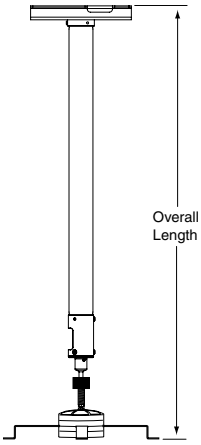
*The Aero Universal Projector Bracket fits the vast majority of LCD/DLP projectors designed for inverted mounting, with threaded mounting holes, weighing 26 pounds or less. Accommodates more than 90% of projector installations. If your projector requires a specific bracket, we will supply it. If unsure, refer to http://www.draperinc.com/Lifts_Mounts_Brackets/AeroLCDBrackets.htm.

Aero Accuset Adjustable Mount—with Ceiling Plate①, two-piece telescoping NPT pipe②, Extension Adapter③, Bracket Adapter④ with cable management and Aero Universal Projector Bracket⑤.

Aero Accuset Fixed Extension Mount
Overall length includes: Ceiling Plate, Bracket Adapter and Aero Universal Projector Bracket.

Pipe Length*	Overall Length
Flush	10½″
6″	14½″
12″	20½″
18″	26½″
24″	32½″
36″	44½″
48″	56½″
60″	68½″
72″	80½″
84″	92½″
96″	104½″
108″	116½″
120″	128½″

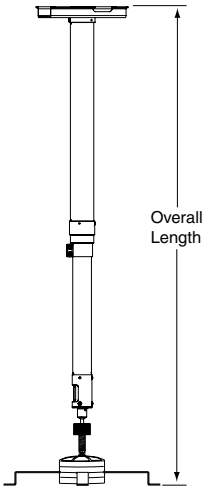
*Pipe length may be cut by installer to fit site requirements.



Aero Accuset Adjustable Mount
Overall length includes: Ceiling Plate, Bracket Adapter and Aero Universal Projector Bracket.

Column Length	Overall Length*
6″–8½″	15⅜″–17¾″
12″–20½″	21⅜″–29¾″
20½″–37½″	29¾″–46¾″
36″–68½″	44¾″–77¾″
48″–92½″	57⅜″–101¾″
60″–116½″	69⅜″–125¾″
72″–140½″	81⅜″–149¾″

*Assembled dimension tolerance: ±¼″.



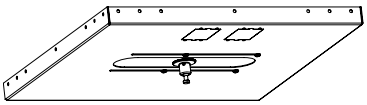
⇦ **Aero Accuset Ceiling Plate**—8″ x 6″ x 1⅝″ (w x l x h) plate attaches to building structure or suspends with threaded rod.

Aero Accuset Fixed Extension Mount—with Ceiling Plate①, one section of 1½″ NPT pipe②, Bracket Adapter③ with cable management and Aero Universal Projector Bracket④.

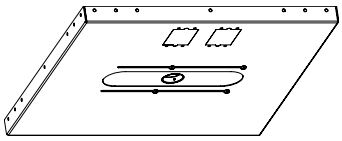
⇦ **Aero Accuset Bracket Adapter**—Attaches Aero Universal Projector Bracket to 1½″ NPT pipe. Allows for cable management.

Optional Accessories

- ***Accuset Low Profile Suspended Ceiling Panel***—Steel panel suspends from structure to fit within 2′ x 2′ ceiling grid. 23¾″ x 23¾″ white panel provides 10″ of overall lateral adjustment for precise projector placement, plus a ball joint for attaching an Aero Universal Projector Bracket.
- ***Accuset Suspended-Ceiling Panel***—Steel panel suspends from structure to fit within 2′ x 2′ ceiling grid. 23¾″ x 23¾″ white panel provides 10″ of overall lateral adjustment for precise projector placement. 1½″ and 2″ Aero Accuset pipe will attach directly to threaded opening.
- ***Accuset Angled Ceiling Plate***—8″ x 6″ x 2″ (w x l x h) plate attaches to vaulted or angled ceilings. Adjusts from 0–25° allowing the projector to remain level. Must be used with Aero Accuset Ceiling Plate.
- ***Security Lock Kit***—While no system can guarantee complete security, the Security Lock Kit is an excellent deterrent, and designed to keep your projector safe and secure when mounted to an Aero or Aero Accuset. Kit includes 6′ cable, key lock, 2 loopers, flexible adhesive pad and microslot lock.
- ***Escutcheon Ring***—Chrome ring trims the ceiling hole around your mount.



Aero Accuset Low Profile Suspended Ceiling Panel



Aero Accuset Suspended Ceiling Panel

Accuset Angled Ceiling Plate

Security Lock Kit

Adhesive pad attached to projector.

Microslot lock engaged.

Aero Mounts for LCD/DLP Projectors

Stylish column mounts.

Draper Aero Mounts complement the latest generation of LCD and DLP projectors. But more than a shapely column, Aero Mounts have innovative features that simplify installation procedures.

Adjustable steel ceiling mounting plate has slotted screw holes for fine adjustments.

One screw adjusts column pitch ±30°. Adapts to cathedral ceilings without special fixtures.

Telescoping extruded aluminum column in your choice of 5 extension ranges. Black powdercoat finish.

Inner column is infinitely adjustable within the specified range. Loosen one concealed setscrew, lower to the *exact* extension you need and tighten the screw. Inner column has a mechanical safety stop to prevent it from disengaging from outer column.

Races for cable management are concealed by "peel off" black moldings. Conveniently located on sides of the column. Hide almost any combination of cables without threading them through a column. Put cables into races after making connections to projector.

Orient your projector quickly with the steel ball-in-socket located at tip of inner column. Provides instant registration of the projected image and adjusts up to 30° pitch, 30° roll and 360° rotation. Locks with a turn of two setscrews.

Aero Universal Projector Bracket attaches in just seconds to the mount's steel ball joint with twist-lock engagement.

Projector-specific brackets for projectors that do not have threaded mounting holes on the bottom, are not compatible with our Universal Projector Bracket, but aren't required to sit in a tray. Attach to any Aero or Aero Accuset mount.

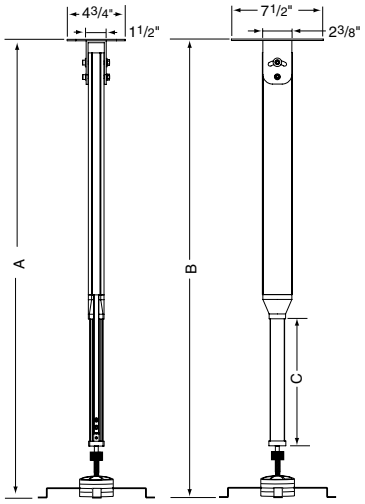
Projector Shelf for projectors not designed for inverted mounting. Holds projectors up to 11¾″ W x 14¾″ D x 7¾″ H and up to 26 lbs. Provides platform for projector. Attaches to any Aero or Aero Accuset mount.

Aero Adjustable Mount Dimensions

Model	A(Min)	B(Max)	C
1214-N	13⅜″	15⅜″	2″
2030-N	21¼″	31⅛″	9⅞″
2636-N	27¼″	37⅛″	9⅞″
3444-N	35⅛″	45″	9⅞″
4252-N	43″	52⅞″	9⅞″

Maximum load—26 pounds

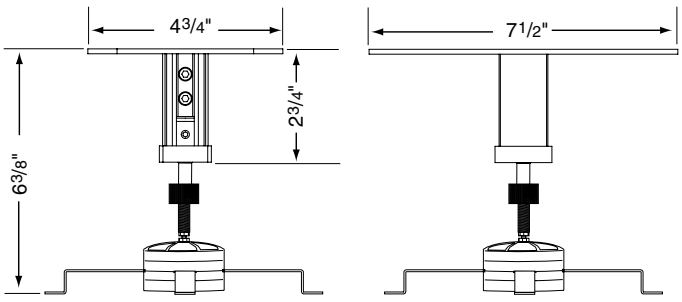
Adjustability	*Pitch*	*Roll*	*Yaw*
At ceiling plate	±30°	0°	0°
At ball joint	±30°	±30°	360°



Aero Model 4–N Mount

Fixed extension mount for installations close to the ceiling with our Aero Universal Projector Bracket. Places top of projector only 6⅜″ from ceiling. (May vary slightly according to choice of projector, and choice of mounting technique.) Steel ceiling mounting plate has slotted screw holes for fine adjustments. Unique ball joint with twist-lock engagement installs in seconds and locks in place. Ball joint adjusts infinitely up to 30° pitch, 30° roll and 360° rotation. For projectors weighing less than 26 pounds.

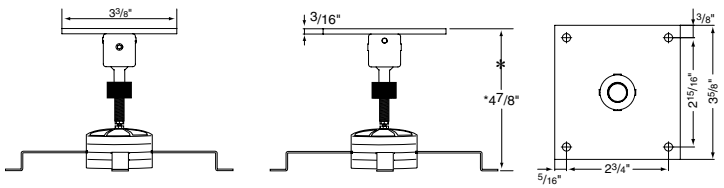
Aero Model 4–N Dimensions



Aero Low Profile Mount

Fixed mount for "low profile" ceiling installations with our Aero Universal Projector Bracket. Places top of projector only 4⅞″ from ceiling (may vary slightly according to choice of projector). Ball joint adjusts infinitely up to 30° pitch, 30° roll and 360° yaw. For projectors less than 26 pounds.

Dimensional Drawings: Aero Low Profile Fixed Mount



Aero Adjustable Mount—with adjustable ceiling plate①, telescoping column②, steel ball-in-socket③ and Aero Universal Projector Bracket④.

Optional Accessories

- ***Escutcheon Ring***—Flexible ring trims the rough cut of the ceiling through which the Aero or Aero Accuset column descends. Shaped to fit outer column. Provides a clean finish to your installation. Black Escutcheon Ring pictured at left is form fitted for the Aero Mount. Adhesive tabs included. Chrome rings are available for 1½″ and 2″ diameter Aero Accuset mounts.

- ***Escutcheon Clips***—Black clips are available to trim the rough cut of the ceiling through which the Aero's inner column descends. Snaps against inner column. Provides a nice, neat finish to your installation.

Aero Mounts for Plasma Displays

Whether you choose to suspend your plasma display from the ceiling or mount it to the wall, look to Draper as your single source for mounting hardware. We've designed a full line of mounts that are sophisticated in appearance, functional in their abilities and installer-friendly.

Inspired Design

As plasma displays become more prevalent in work and home environments, the importance of a good looking "mount" increases. Our sophisticated design incorporates cutting edge technology to harmonize with today's displays.

Function and Form

Aero Mounts combine high-tech appearance with functional features: unique Slide Mounting System; universal and display-specific mounting brackets; height adjustments; and on most models—built-in cable management, rotation, tilt, monitor orientation, concealed power outlets and adjustable shelves.

Installer Friendly

The keystone-shaped Aero Slide Mounting System makes mounting your display as easy as hanging a picture, and as stable as the wall or ceiling it's attached to. Moving or upgrading your display is easy. Our Security Lock Kit is an excellent theft deterrent. Plus, the addition of the new Universal Plasma Bracket takes the guesswork out of ordering a mounting bracket (see at right).

Exclusive Aero Features

- ***Aero Slide Mounting System***—Each Aero Mount consists of an attractive and sturdy mount designed for wall, ceiling or floor mounting, and an Aero Universal Plasma Bracket (or plasma-specific bracket) which bolts to the back of the plasma monitor. The bracket has a large keystone shaped plate, which slides into a universal mating bracket on the Aero mount. Once in place, the bracket is secured with lock devices. The slide system is universal to all Aero brackets and mounts, so it's easy to move your display from one venue to another. If you buy a new display, you don't have to buy a new mount.

- ***Cable Management***—Conceal cables inside the column. A discrete channel is provided for cable passage; cables are kept in their channel with a simple clip.

Installation location courtesy of Vectren Corporation. Installation by Data Projections, Inc.

Complete Aero Mounts for Plasma Displays specifications: www.draperinc.com

Universal Plasma Bracket

Draper has solved the problem of choosing a mounting bracket to fit the variety of plasma displays on the market today—with the innovative Universal Plasma Bracket. The Aero Universal Plasma Bracket attaches to almost any plasma display through 50″ diagonal and under 100 lbs. No need to order a plasma-specific bracket.

Specially shaped keystone plate works for both portrait *and* landscape installation on any Draper Aero Mount for Plasma Displays—ceiling, floor, wall or mobile. Assembled bracket is less than one inch deep, finished in black powdercoat.

Each Aero Universal Plasma Bracket comes with a full set of screws, washers, extenders, spacers, extension plates and extension arms to fit virtually any plasma model. Patent pending.

Aero Universal Plasma Bracket in landscape orientation

Aero Universal Plasma Bracket in portrait orientation

A full set of hardware to fit virtually any plasma model is included

Aero Wall Mounts for Plasma Displays

Basic Tilt Wall Mount

Basic Tilt

The Basic Tilt has an extremely low profile, protruding only 1″ from the wall (not including a universal or plasma-specific bracket). Mount any plasma display flat to the wall or tilted up to 10°. Formed of heavy gauge steel, the Aero Basic Tilt attaches to two wall studs on 16″ centers, with two installation points per stud. The tilting mechanism locks into place. Maximum capacity 330 lbs. Handles displays up to 63″ diagonal. A safety lock secures the display in the bracket. Finished in black powdercoat and includes the Draper Universal Plasma Bracket.

3Dimension Wall Mount

3Dimension

The 3Dimension provides complete flexibility in positioning your plasma display. Folded flat, it's just 4″ from the wall. Yet it floats easily to any position up to 26″ away from the wall. Pull it out, move it left-to-right and tilt it forward (up to 10°)—in any combination! This mount is an excellent choice for corner installations. Supports one plasma display with complete stability and safety, in either portrait or landscape orientation. Maximum capacity 100 pounds (most 42″ and 50″ displays). Finished in black powdercoat and includes the Draper Universal Plasma Bracket.

V4 Wall Mount

V4

The Aero V4 articulating wall mount swivels and rotates the display in all directions, limited only by the wall. The Aero V4 swivels at both the wall and bracket support, so you can position the display flush against the wall when not in use. Extends the plasma display up to 30″ from the wall. Display can be tilted up to 15° and rotated 360°. Swivel ±90° (depending on size of display). Maximum capacity 165 lbs. Handles displays up to 63″ diagonal. Formed entirely of heavy gauge steel, finished in black powdercoat and includes the Draper Universal Plasma Bracket.

W490 and W1150 Wall Mounts

W1150 with a plasma display and an optional shelf

W490

Mount plasmas on attractive extruded aluminum columns with built-in cable management system and concealed 2-socket electrical panel. Column attaches to wall with heavy gauge steel mounting plates, and enables display to be rotated 20°. Display can be mounted either horizontally or vertically and tilted up to 15°. Maximum capacity 330 lbs. Handles displays up to 63″ diagonal. Finished in black powdercoat and includes the Draper Universal Plasma Bracket.

W490 is a 19″ column and holds one plasma.

W1150 is a 45″ column and holds up to two displays and optional shelves. The plasma can be raised or lowered over a 33½″ range in 2″ increments. Optional shelves for VCR, DVD player, amplifier and related equipment available in black or grey.

W/F2000 Wall-to-Floor Mount

W/F2000

This innovative mount features a 78″ extruded aluminum column which attaches to the wall *and* floor with sturdy steel swivel brackets. Mount up to three plasma displays horizontally, or either one or two vertically, depending on display sizes. Displays can be raised or lowered over a 58″ range in 2″ increments. Two lock devices secure each display in its bracket. Column has a built-in cable management system and concealed 2-socket electrical panel. Displays can be tilted up to 15° if mounted horizontally; ±20° swivel left-to-right. Maximum capacity 660 lbs. Entire weight of the mount is supported by the floor. Handles displays up to 63″ diagonal. Finished in black powdercoat and includes the Draper Universal Plasma Bracket. Optional shelves for VCR, DVD player, amplifier and related equipment available in black or grey.

Aero Ceiling Mounts for Plasma Displays

C Basic Ceiling Mount

Quickly and safely install Draper's C Basic pipe-style plasma mount to the ceiling or above it. Attach a Universal Plasma Bracket to the back of the plasma and slide its keystone-shaped plate onto the C Basic's universal mating bracket.

Allows up to 24″ of vertical adjustment in 4″ increments. Display can be tilted up to 25° and has 360° rotation. Maximum capacity is 165 lbs. and handles displays up to 63″ diagonal. Column has built-in cable management system—cables run inside the column. Finished in black powdercoat and includes the Draper Universal Plasma Bracket.

C490 and C1150 Ceiling Mounts

The C490 suspends a single plasma display from a 19″ long extruded aluminum column mounted to a heavy gauge steel ceiling bracket. Ceiling bracket swivels to permit a complete 360° horizontal rotation, and display can be tilted up to 15°. Display can also be raised and lowered on column over a 6″ range in 2″ increments. For screens up to 50″ diagonal, the display's center-line can be 33⅝″ to 41½″ from the ceiling bracket. For screens 60″ diagonal and larger, the display's center-line can be 37¾″ to 45⅝″ from the ceiling bracket.

The C1150 is similar to the C490 but offers a 45″ long column. Display can be raised or lowered over a 6″ range in 2″ increments. For screens up to 50″ diagonal, the display's center-line can be 59⅝″ to 67½″ from ceiling bracket. For screens 60″ diagonal and larger, the display's center-line can be 63¾″ to 71⅝″ from bracket.

For both the C490 and C1150, the maximum capacity is 165 lbs. A multi-socket electrical panel is concealed in the back of the column. Finished in black powdercoat and includes the Draper Universal Plasma Bracket.

CD490 and CD1150 Dual Ceiling Mounts

Both the CD490 and CD1150 suspend two plasma displays, back-to-back.

The CD490 suspends two plasma displays from a 19″ long extruded aluminum column mounted to a heavy gauge steel ceiling bracket. Ceiling bracket swivels to permit a complete 360° horizontal rotation. Display can be tilted up to 15°, raised or lowered on column over a 8″ range in 2″ increments. For all screen sizes, the display's center-line can be 29⅛″ to 37″ from the ceiling bracket.

The CD1150 offers a 45″ long column. Display can be raised and lowered over a 16″ range in 2″ increments. For all screen sizes, the display's center-line can be 47¼″ to 63″ from bracket.

For both the CD490 and CD1150, the maximum capacity is 325 lbs. A multi-socket electrical panel is concealed in the back of the column. Finished in black powdercoat and includes the Draper Universal Plasma Bracket.

T4 Ceiling Mount

Install a plasma with the top of the image virtually flush with the ceiling line. Complete 360° rotation and up to 15° of tilt are standard. A separate "above the ceiling" mounting bracket is available for structural support with a suspended ceiling installation—or it may be exposed in rooms with higher ceilings. This extension bracket adjusts from 14½″ to 30¼″ long. Maximum capacity 165 lbs. Finished in black powdercoat and includes the Draper Universal Plasma Bracket.

C/F3000 Ceiling-to-Floor Mount

The Aero C/F3000 features a 118″ extruded aluminum column with sturdy steel swivel mounts for attachment to ceiling and floor. A built-in ±2″ height adjuster makes the Aero C/F3000 installer friendly, and it can also be shortened in the field if desired. Mount up to three plasma displays horizontally or two vertically. Displays can be raised or lowered over a 98″ range in 2″ increments. Two lock devices secure each display in its bracket. Column has a built-in cable management system and concealed 2-socket electrical panel. Displays can be tilted up to 15° if mounted horizontally; ±20° swivel left-to-right. Maximum capacity is 660 lbs. Entire weight of the mount is supported by the floor. Handles displays up to 63″ diagonal. Finished in black powdercoat and includes the Draper Universal Plasma Bracket. Optional shelves for VCR, DVD player, amplifier and related equipment available in black or grey.

Mobile Mounts

Mobile 1450

The Mobile 1450 offers instant portability of your plasma display. A wide track tubular steel base and 3″ swivel casters enable safe, easy movement from room to room.

The plasma display mounts onto a sturdy 63⅜″ high extruded aluminum column. Standard height setting places center of display image approximately 56¾″ off the floor. Display can be raised or lowered over a 30″ range in 2″ increments. Column has the Aero built-in cable management system. Display can be mounted either horizontally or vertically.

Optional base shelf and adjustable column shelves provide for VCR, DVD player, amplifier and related equipment. Available in black or grey. See below.

Mobile 2000

The Mobile 2000 is identical to the Mobile 1450, just taller. The extruded aluminum column is 85⅛″ high. Standard height setting places center of display image approximately 78¾″ off the floor. Display can be raised or lowered over a 58″ range in 2″ increments.

For both the Mobile 1450 and Mobile 2000, maximum capacity is 220 lbs. Handles displays up to 63″ diagonal. Column has a built-in cable management system. Finished in black powdercoat and includes the Draper Universal Plasma Bracket.

Floor Stands

F1450

Well-balanced shape and weighted base ensure a stable and safe platform for even the largest plasma display. Base is 30⅛″ wide x 19½″ deep. Display mounts onto a sturdy extruded aluminum column. Total height is 59½″. Column has a 30″ range of vertical adjustment. At the highest setting, the display's center-line is 52¾″ above the floor, regardless of screen size.

F2000

Same as above, except total height of stand is 81⅛″ with 58″ of vertical adjustment. At the highest setting, the display's center-line is 74⅜″ above the floor, regardless of screen size.

For both the F1450 and F2000, maximum capacity is 220 lbs. Handles displays up to 63″ diagonal. Column has a built-in cable management system. Finished in black powdercoat. Mount display either horizontally or vertically with the Universal Plasma Bracket (included). Optional adjustable column shelves (available in black or grey) hold related equipment.

Table Stand

The Aero Table Stand allows for easy placement of a plasma display on a table or credenza for trade shows, office or board-rooms. Its modern design complements the sleek proportions of any plasma display.

The Table Stand's well-balanced shape and weighted base ensure a stable and safe platform for even the largest plasma display. It stands 24⅜″ high. The base is 25″ wide x 14¼″ deep.

Maximum capacity is 220 lbs. Handles displays up to 61″ diagonal. Column has a built-in cable management system. Finished in black powdercoat and includes Draper's Universal Plasma Bracket.

Optional Accessories

- ***Adjustable Shelves***—Optional grey or black shelves, 16⅜″ wide x 12⅝″ deep. Shelves can hold up to 22 lbs. each and accommodate a variety of peripherals. A positive locking clip keeps shelves securely attached. Shelf height may be adjusted in 2″ increments.
- ***Security Lock Kit***—While no system can guarantee complete security, the Security Lock Kit is an excellent deterrent. Use with plasma, DVD, VCR, amplifier and other related equipment. Kit includes 6′ cable, key lock, 2 loopers, flexible adhesive pad and microslot lock.
- ***FPD Adapter***—Aero FPD Adapter allows you to convert any Aero Mount for Plasma Displays into a mount for LCD/TFT flat panel displays. Mounting plate fits any LCD/TFT flat panel display with a 75 mm or 100 mm mounting hole pattern. Maximum weight capacity 33 lbs.
- ***Base Shelf***—Optional widetrack grey or black base shelf for Aero Mobile Mounts. 37¾″ wide x 16⅞″ deep.

Adjustable Shelves

Security Lock Kit

FPD Adapter

Base Shelf for Mobile Mounts

Aero FPD Ceiling Mounts

Aero Flat Panel Display (FPD) Ceiling Mount

Attractive, telescoping column of natural anodized aluminum for suspending LCD flat panel displays from the ceiling. Quickly and safely install Draper's Aero FPD Ceiling Mount to the ceiling or above it. With the exclusive Aero Slide Mounting System, just attach an FPD Bracket to the back of the monitor and slide it onto the column's keystone-shaped plate.

Available in five lengths—each infinitely adjustable within the specified range (see chart at right). 30° of tilt at the ceiling plate. 0-35° of tilt at the display bracket. 360° of rotation.

Column has built-in cable management system. FPD Bracket (included) fits both VESA™ 75 mm and 100 mm mounting hole patterns on LCD and TFT panels.

Maximum weight capacity 33 lbs.

Cable Management is a simple task with the Aero FPD Ceiling Mount.

Aero FPD C800

The Aero FPD C800 ceiling mount has a column length of 31½″. Display can be positioned anywhere along the column. Multiple LCD flat panels can be mounted to column using the Multi-Panel Bracket. Holds up to 4 displays. Built-in cable management in side of column exits the column through the ceiling plate. Maximum weight capacity 88 lbs.

The FPD C800 includes one Multi-Panel Bracket and VESA™ 75 mm or 100 mm plate. Allows ±90° of rotation and ±25° of tilt.

The FPD C800 can be inverted and permanently mounted to a table.

NEW

FPD C800 Ceiling Mount holds up to 4 displays using the Multi-Panel Bracket.

FPD C800 Ceiling Mount with single display.

Model	Adjustable range—from display's center-line to ceiling bracket
FPD1214	10¼″—12⅜″
FPD2030	16″—26″
FPD2636	24″—34″
FPD3444	32″—42″
FPD4252	40″—50″

Complete Aero FPD Mount specifications: www.draperinc.com.

Aero FPD Table Mounts

NEW

Aero FPD T400

The Aero FPD T400 is the latest permanent tablestand for small screen displays. Perfect for receptions, hotels, shops and any kind of information counter. Very stable when mounted on a surface. Column length is 15¾″. Built-in cable management in side of column exits the column through the mounting plate.

Includes one Multi-Panel Bracket and VESA™ 75 or 100 plate. Allows ±90° of rotation and ±25° of tilt.

Display can be positioned anywhere along the column. The Aero FPD T400 is designed to be permanently mounted to table or solid surface. It can be used with Aero FPD Clamp (see page 32) to attach to side of table or solid surface for a non-permanent installation. It can also be inverted and mounted to the ceiling—making it a shorter ceiling mount than the FPD C800.

The Aero FPD T400 holds displays weighing up to 22 lbs. Multiple flat panels can be mounted to the column opposite each other using the Multi-Panel Bracket.

Aero FPD T400-3D

The Aero FPD T400-3D is the same as the T400 but also includes the extension arm from the Aero FPD 3Dimension Light. Extension arm provides for about 15″ of extension from the T400-3D column. Holds LCD displays weighing up to 18 lbs.

Aero Flat Panel Display Wall Mounts

Aero FPD Wall Infinite Mount

Rotate, tilt or angle your display at will, while placing the back of your monitor only 5″ from the wall. Silver lacquer finish. Ball joint allows 25° adjustment in all directions. Exclusive Aero Slide Mounting System. FPD Bracket included. Max. weight capacity: 18 lbs.

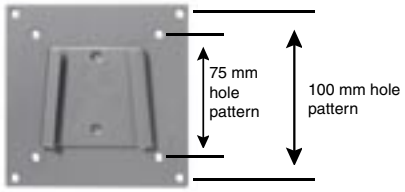
Aero FPD Wall AT Mount

The monitor can be angled or tilted. Back of your display is only 2⅛″ from the wall. Silver lacquer finish. 15° tilt up and down; 20° rotation left to right. Exclusive Aero Slide Mounting System. FPD Bracket included. Max. weight capacity: 33 lbs.

Aero FPD Wall Mount

The bracket cannot be tilted or angled, but the display is only ⅝″ from the wall. Silver lacquer finish. Exclusive Aero Slide Mounting System. FPD Bracket included. Max. weight capacity: 33 lbs.

Aero FPD Bracket



The Aero FPD Bracket is included with all FPD ceiling and wall mounts. This universal bracket attaches to all display panels with a VESA™ 75 mm or 100 mm mounting hole pattern. The bracket measures 4⅜″ square. With the exclusive Slide Mounting System, just attach an FPD Bracket to the back of the monitor and slide it onto the mount's keystone-shaped plate.

Aero FPD W800/W1200

Both the FPD W800 and W1200 are the perfect partners for creative displays mounted to the wall. Column lengths are 31½″ and 47¼″ respectively, and have built-in cable management.

Each mount includes one Multi-Panel Bracket and VESA™ 75 mm or 100 mm plate. Allows ±90° of rotation and ±25° of tilt. The flat panel display can be positioned anywhere along the column. Maximum weight capacity is 88 lbs.

Attach optional shelves to hold a DVD player, additional equipment, etc. Multiple flat panels can be mounted to the column using the Multi-Panel Bracket.

Aero FPD 3Dimension Light

The Aero FPD 3Dimension Light provides complete flexibility in positioning your LCD display. The articulating arm extends the display up to 15″ from the wall and allows ±90° of rotation and ±25° of tilt.

The mount supports one LCD display with complete stability and safety, in either portrait or landscape orientation with VESA™ 75 mm or 100 mm mounting holes. Maximum weight capacity is 22 lbs.

NEW

Aero Flat Panel Display Accessories

Aero FPD Multi-Panel Bracket

The Aero FPD Multi-Panel Bracket is used when you want to mount more than one LCD display to any of the Aero FPD column mounts. It attaches to the side of the column. Brackets can be mounted on either side of column so displays are directly opposite each other. It allows ±90° of rotation and ±25° of tilt. Includes mounting plate for VESA™ 75 mm x 75 mm or 100 mm x 100 mm mounting hole pattern.

Aero FPD Clamp

The FPD Clamp allows non-permanent attachment of the FPD T400 mount to the side of a table or solid surface. It can also be used to convert the T400 to a suspended mount—clamping to a pipe or truss up to 1½″ diameter or 1⅛″ thick table or solid surface. It replaces the standard mounting plate that ships with the Aero FPD T400.

Aero FPD 3D Arm

The Aero FPD 3D Arm is an extension arm exactly like the one on the Aero FPD 3Dimension Light. Mounts to any of the columns and provides articulating capabilities.

Aero FPD Acrylic Shelf

Clear adjustable shelf can be attached to the column of the FPD W800, W1200 or C800 mounts. Has green tint when viewed from edge of shelf. Shelf holds up to 22 lbs.

Aero FPD Black Shelf

Black adjustable shelf can be attached to the column of the FPD W800, W1200 or C800 mounts. Shelf holds up to 22 lbs.

Onyx

Quick and easy assembly plus adjustable surface tension—without snaps!

You can have a beautifully framed image hanging on the wall in just 10 to 15 minutes—assembly is that easy!

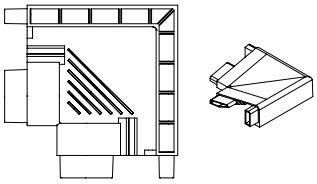
An attractive frame and a new fabric tensioning system make Onyx the leader in permanently tensioned screens. The 4″ wide beveled, extruded aluminum frame interconnects on site with one simple hand tool that Draper provides. Each side piece slip fits tightly to injection molded plastic corners, forming perfectly mitered edges.

A radical new approach to fabric attachment will amaze even the toughest of critics. There are no snaps! Uniform tension is applied to the entire surface area, so the surface is perfectly flat. Unique fabric retention system enables you to adjust the surface tension (up to 1½″) in just seconds, without tools.

Draper's Onyx. Patent Pending. Installation by Fullhouse Media Solutions, Inc., Atlanta, GA. Photography by Ed Wolkis, Atlanta, GA.

System Options

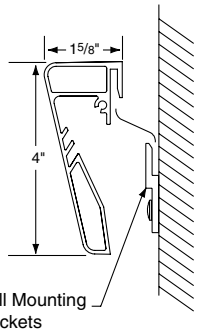
- ***Viewing Surfaces***—M1300, M2500, HiDef Grey, acoustically transparent AT1200 or AT Grey for front projection or Cineflex rear projection vinyl.
- ***Custom Sizes***—Available up to 20′ x 20′ image area depending on viewing surface.
- ***Frame Finishes***—Black aluminum is standard. Cover the frame with optional velvety black textile, Vel-Tex, to eliminate reflections.
- ***Mounting***—Permanent wall mount (brackets included).

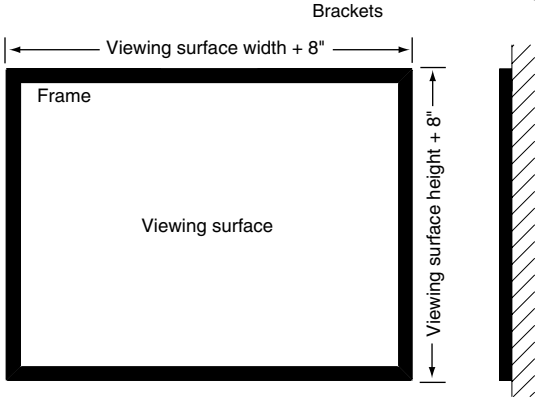


Injection molded plastic corners, form perfectly mitered edges.

Standard Onyx Sizes

Nominal Diagonal	Image Area H x W	Overall Size H x W	Net Wt. (lbs.)	M1300	HiDef Grey	M2500	AT1200	AT Grey	Cineflex
Audio Visual Format									
	50″ x 50″	58″ x 58″	27	■	■	■	■	■	■
	60″ x 60″	68″ x 68″	32	■	■	■	■	■	■
	70″ x 70″	78″ x 78″	37	■	■	■	■	■	■
	84″ x 84″	92″ x 92″	44	■	■	■	■	■	■
	96″ x 96″	104″ x 104″	50	■	■	■			■
	9′ x 9′	116″ x 116″	56	■		■			■
	10′ x 10′	128″ x 128″	63	■		■			■
NTSC Format (4:3)									
6′	43″ x 57″	51″ x 65″	27	■	■	■	■	■	■
6½′	47″ x 63″	55″ x 71″	30	■	■	■	■	■	■
7′	50″ x 67″	58″ x 75″	31	■	■	■	■	■	■
7½′	54″ x 72″	62″ x 80″	33	■	■	■	■	■	■
100″	60″ x 80″	68″ x 88″	37	■	■	■	■	■	■
10′	72″ x 96″	80″ x 104″	43	■	■	■	■	■	■
150″	90″ x 120″	98″ x 128″	54	■	■	■			■
15′	108″ x 144″	116″ x 152″	66	■		■			■
HDTV Format (16:9)									
92″	45″ x 80″	53″ x 88″	34	■	■	■	■	■	■
106″	52″ x 92″	60″ x 100″	37	■	■	■	■	■	■
119″	58″ x 104″	66″ x 112″	41	■	■	■	■	■	■
133″	65″ x 116″	73″ x 124″	46	■	■	■	■	■	■
161″	80″ x 140″	88″ x 148″	57	■	■	■	■	■	■
WideScreen Format (1.85:1)									
99″	47″ x 87″	55″ x 95″	35	■	■	■	■	■	■
108″	49¾″ x 92″	57¾″ x 100″	37	■	■	■	■	■	■
120″	56¼″ x 104″	64¼″ x 112″	41	■	■	■	■	■	■
132″	62¾″ x 116″	70¾″ x 124″	46	■	■	■	■	■	■
162″	75¾″ x 140″	83¾″ x 148″	55	■	■	■	■	■	■





Clarion

Perfect picture quality from a fixed projection screen.

Improve your image—with a CLARION projection screen. How? The viewing surface is *perfectly flat*. And a perfectly flat viewing surface means *perfect picture quality*. The CLARION's viewing surface is stretched tightly over a self-concealing aluminum frame, which also forms an attractive border, for a clean, theatre-like appearance.

System Options

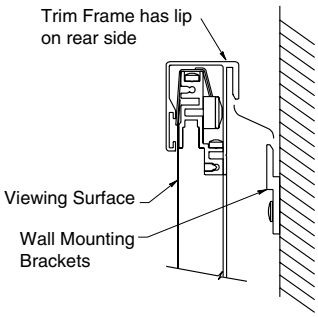
- ***Viewing Surfaces***—M1300, M2500, HiDef Grey, glass beaded, or acoustically transparent AT1200 or AT GREY.
- ***Custom Sizes***—Available up to the maximum standard size in the chart below. Overall size, including frame, equals image area plus 3½″.
- ***Frame Finishes***—Black acrylic is standard. Also available with velvety black VEL–TEX to eliminate reflections on the frame.
- ***Black Masking Borders***—The frame serves as the border in all formats.
- ***Mounting***—Permanent wall mount (brackets included).

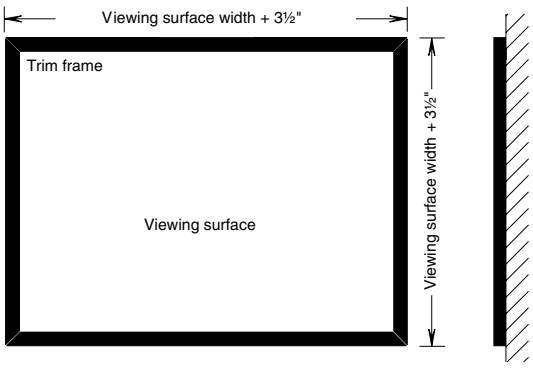
Complete Onyx and Clarion specifications: www.draperinc.com

Earlham College, Richmond, IN. Installation by MCSi, Indianapolis.

Standard Clarion Sizes

Nominal Diagonal	Image Area H x W	Overall Size H x W	Net Wt. (lbs.)	M1300	M2500	HiDef Grey	Glass Beaded	AT1200	AT Grey
Audio Visual Format									
	50″ x 50″	53½″ x 53½″	31	■	■	■	■	■	■
	60″ x 60″	63½″ x 63½″	38	■	■	■	■	■	■
	70″ x 70″	73½″ x 73½″	39	■	■	■	■	■	■
	84″ x 84″	87½″ x 87½″	55	■	■	■		■	■
	96″ x 96″	99½″ x 99½″	63	■	■	■			
	9′ x 9′	111½″ x 111½″	71	■	■				
	10′ x 10′	123½″ x 123½″	79	■	■				
NTSC Format (4:3)									
6′	43″ x 57″	46½″ x 60½″	32	■	■	■	■	■	■
6½′	47″ x 63″	50½″ x 66½″	37	■	■	■	■	■	■
7′	50″ x 67″	53½″ x 70½″	38	■	■	■	■	■	■
7½′	54″ x 72″	57½″ x 75½″	42	■	■	■	■	■	■
100″	60″ x 80″	63½″ x 83½″	45	■	■	■	■	■	■
10′	72″ x 96″	75½″ x 99½″	55	■	■	■	■	■	■
150″	90″ x 120″	93½″ x 123½″	72	■	■	■		■	■
15′	108″ x 144″	111½″ x 147½″	80	■	■				
HDTV Format (16:9)									
92″	45″ x 80″	48½″ x 83½″	41	■	■	■	■	■	■
106″	52″ x 92″	55½″ x 95½″	46	■	■	■	■	■	■
119″	58″ x 104″	61½″ x 107½″	54	■	■	■	■	■	■
133″	65″ x 116″	68½″ x 119½″	59	■	■	■		■	■
161″	80″ x 140″	83½″ x 143½″	73	■	■	■		■	■
Wide Screen Format (1.85:1)									
99″	47″ x 87″	50½″ x 90½″	46	■	■	■	■	■	■
108″	49¾″ x 92″	53¼″ x 95½″	48	■	■	■	■	■	■
120″	56¼″ x 104″	59¾″ x 107½″	54	■	■	■	■	■	■
132″	62¾″ x 116″	66¼″ x 119½″	61	■	■	■		■	■
162″	75¾″ x 140″	79¼″ x 143½″	73	■	■	■		■	■





ShadowBox Clarion

ShadowBox Clarion screens are constructed with a viewing surface that snaps onto the back side of a 1½″ extruded aluminum frame with a black powdercoat finish. The assembled unit features a perfectly flat viewing surface with a clean, finished appearance.

System Options

- ***Viewing Surfaces***—M1300, M2500, HiDef Grey, AT1200 or AT Grey for front projection, or Cineflex for rear projection.
- ***Standard Sizes***—Same Image Area sizes as Clarion (page 35). Overall Size, including frame, equals Image Area plus 3″ in each dimension.
- ***Custom Sizes***—Available up to the maximum standard size on page 35.
- ***Frame Finishes***—Black aluminum is standard. The standard black frame may be covered with velvety black Vel-Tex, to eliminate reflections on the frame.
- ***Black Masking Borders***—The frame serves as the border in all formats.
- ***Mounting***—Permanent wall mount (brackets included).

WrapAround Clarion

With a WrapAround Clarion, the viewing surface wraps completely around the perimeter frame and attaches to the back side, so the screen is solid white—and perfectly flat—with no visible frame or border. Ideal for any application where the screen must be perfectly unobtrusive.

System Options

- ***Viewing Surfaces***—M1300, M2500 or HiDef Grey.
- ***Sizes***—Available in any size up to the largest standard size shown in the chart for the Clarion on page 35. Image Area will match the Overall Size.
- ***Frame and borders***—No frame or borders are visible since the surface wraps completely around the frame.
- ***Mounting***—Permanent wall mount (brackets included).

Eclipse Masking System

Switch instantly between two formats

The Eclipse is a motorized masking system that mounts to the wall, framing a Draper Clarion or Cineperm. A special channel system keeps the screen as close as possible to the masking borders, giving it a seamless appearance. Images are fully bordered in flat black, so nothing interferes with your projected image—*in any format.* The Eclipse eliminates the need to buy two projection screens.

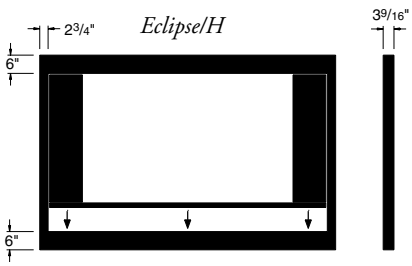
System Options

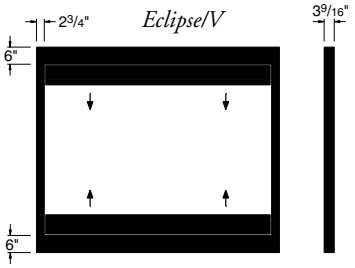
- ***Series V***—Image Area masked from top and bottom and the width remains constant. Standard format changes from 4:3 NTSC to 16:9 HDTV, or from 4:3 NTSC to 1.85:1 WideScreen.
- ***Series H***—Image Area masked on the sides and the height remains constant. Standard format changes are from either 16:9 HDTV or 1.85:1 WideScreen to 4:3 NTSC.
- ***Control Options***—Refer to page 22.

Eclipse/V U.S. Patent No. 5,523,880

From 16:9 HDTV to 4:3 NTSC, or
From 1.85:1 WideScreen to 4:3 NTSC

HDTV Open Image Area (16:9) Nom. Diag.	WideScreen Open Image Area (1.85:1) Nom. Diag.	NTSC Masked Image Area (4:3) Nom. Diag.
Eclipse/H to use with Clarion or Cineperm		
92″	95″	75″
106″	109½″	86½″
123″	126″	100″
133″	136½″	108″
147″	151½″	120″





From 4:3 NTSC to 16:9 HDTV, or
From 4:3 NTSC to 1.85:1 WideScreen

NTSC Open Image Area (4:3) Nom.Diag.	HDTV Masked Image Area (16:9) Nom.Diag.	WideScreen Masked Image Area (1.85:1) Nom.Diag.
Eclipse/V to use with Clarion		
6′	65½″	64¾″
6½′	72¼″	71½″
7′	77″	76″
90″	82¾″	81¾″
100″	92″	91″
10′	110¼″	109″
150″	137¾″	136¼″
Eclipse/V to use with Cineperm		
6′	65½″	64¾″
6½′	72¼″	71½″
7½′	82¾″	81¾″
100″	92″	91″
10′	108″	106¾″
11′	120½″	119¼″
150″	137¾″	136¼″

Cineperm

Snap-On screen with aluminum frame.

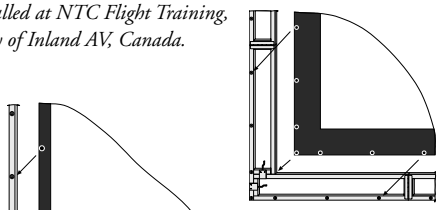
The Cineperm offers a contemporary, theatre-like appearance wherever a permanently mounted front or rear screen is required. Flexible viewing surface is stretched perfectly flat and snaps onto a 1″ tubular aluminum frame. The viewing surface conceals the frame completely with 2″ black leatherette borders on all sides. Pull handles at each corner of the surface help stretch the fabric during attachment, and can be removed after snapping surface onto frame.

Suitable for mounting to a wall, suspending from a ceiling, or "flying" for theatrical uses.

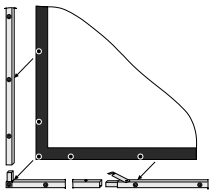
System Options

- ***Viewing Surfaces***—M1300, M2500, HiDef Grey, AT1200 or AT Grey for front projection, or Cineflex rear projection vinyl.
- ***Standard Sizes***—Listed in the chart below.
- ***Custom Sizes***—We make virtually any size. Overall size, including frame, equals image area plus 4″.
- ***Truss Sizes***—Sizes larger than 10½′ x 14′ are manufactured with truss-style construction, using a 6″ wide frame and borders.
- ***Black Masking Borders***—Standard for all formats.

Draper Cineperm screens installed at NTC Flight Training, Moose Jaw, SK. Photo courtesy of Inland AV, Canada.



Cineperm Truss-Style Construction (very large sizes only)



Cineperm Standard Construction

Image Area H x W	Overall Size H x W	Net Wt. (lbs.)	Nominal Diagonal	Image Area H x W	Overall Size	Net Wt. (lbs.)	Nominal Diagonal	Image Area H x W	Overall Size	Net Wt. (lbs.)
AV Format			*NTSC Format (4:3)*				*HDTV Format (16:9)*			
46″ x 46″	50″ x 50″	34	6′	43″ x 57″	47″ x 61″	22	92″	45″ x 80″	49″ x 84″	27
56″ x 56″	60″ x 60″	36	6½′	47″ x 63″	51″ x 67″	23	106″	52″ x 92″	56″ x 96″	28
66″ x 66″	70″ x 70″	38	7½′	54″ x 72″	58″ x 76″	24	119″	58″ x 104″	62″ x 108″	31
80″ x 80″	84″ x 84″	40	100″	60″ x 80″	64″ x 84″	25	133″	65″ x 116″	69″ x 120″	35
70″ x 94″	74″ x 98″	41	10′	70″ x 94″	74″ x 98″	28	161″	80″ x 140″	84″ x 144″	41
92″ x 92″	96″ x 96″	42	11′	79″ x 105″	83″ x 109″	32	*Wide Screen Format (1.85:1)*			
90″ x 120″	94″ x 124″	44	150″	90″ x 120″	94″ x 124″	35	99″	47″ x 87″	51″ x 91″	27
116″ x 116″	10′ x 10′	48	15′	104″ x 140″	108″ x 144″	46	108″	49¾″ x 92″	53¾″ x 96″	28
104″ x 140″	9′ x 12′	50	200″	122″ x 164″	126″ x 168″	49	120″	56¼″ x 104″	60¼″ x 108″	31
140″ x 140″	12′ x 12′	56	250″*	144″ x 194″	156″ x 206″	98	132″	62¾″ x 116″	66¾″ x 120″	35
			25′*	180″ x 242″	192″ x 254″	109	162″	75¾″ x 140″	79¾″ x 144″	41

Complete Cineperm and Lace & Grommet specifications: www.draperinc.com

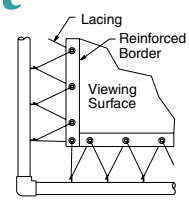
*This size requires truss-style construction.

Lace & Grommet

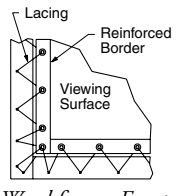
Draper Lace & Grommet screens are furnished with reinforced borders on all four sides and grommets on 6″ centers. Every Lace & Grommet screen is custom built to your order—sizes up to 30′ x 90′. Ideal for theatres, auditoriums and stage events.

System Options

- ***Viewing Surfaces***—For front projection, flexible matt white is the standard viewing surface. Fiberglass matt white, glass beaded, pearlescent, aluminized, M1300, M2500 and HiDef Grey are also available. For rear projection, choose Cineflex vinyl.
- ***Frames***—Wood, aluminum or steel for wall or suspended mounting.
- ***Surface Attachment***—Lacing cords, springs or shock cords may be used to attach surface to frame. Wraparound style frames are optionally available, as well as rigid masking systems.

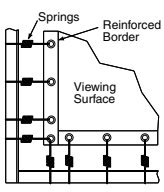


Aluminum frame–Inside laced



Wood frame–Front laced

Draper Lace & Grommet with surface attached to steel frame via springs. Westside Recreation Centre, Calgary, Alberta, Canada. Photo courtesy of Inland AV, Canada.



Springs to attach surface to frame

Access/Series M

Install the case now and the screen later.

The Access is the most versatile ceiling-recessed screen on the market. No other projection screen offers you the benefits of installing the case during construction and the viewing surface at a later date to eliminate job site damage. See page 6 for details of Draper's Access case. Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or High Contrast Grey.

U.S. Patent No. 6,532,109. Other patents pending.

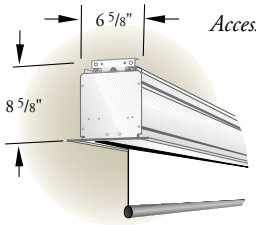
System Options

- ***Extra Drop***—Up to 12′ overall height, either white or black (white is standard in AV format; black for all other formats).
- ***Black Masking Borders***—Borders are optional for Series M in AV format. They are standard for all other formats.
- ***Control Options***—Aluminum Operating Pole, choice of two sizes: 4′ and 6′. Use in place of the factory attached pull cord.

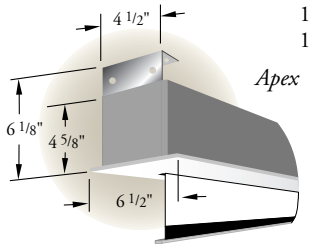
Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format		
50″ x 50″	4′8″	33
60″ x 60″	5′6″	39
70″ x 70″	6′4″	45
84″ x 84″	7′6″	51
72″ x 96″	8′6″	53
96″ x 96″	8′6″	56
7′ x 9′	9′6″	57
9′ x 9′	9′6″	65
8′ x 10′	10′6″	72
10′ x 10′	10′6″	77
9′ x 12′	12′6″	88
12′ x 12′	12′6″	104

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
NTSC Format (4:3)				
6′	42½″ x 56½″	46½″ x 59½″	5′6″	36
7′	50″ x 66½″	53½″ x 69½″	6′4″	43
100″	60″ x 80″	64″ x 83½″	7′6″	50
10′	69″ x 92″	73″ x 96″	8′6″	53
11′	78″ x 104″	83″ x 108″	9′6″	60
150″	87″ x 116″	92″ x 120″	10′6″	72
15′	105″ x 140″	109″ x 144″	12′6″	88

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
HDTV Format (16:9)				
92″	45″ x 80″	49″ x 83½″	7′6″	45
106″	52″ x 92″	56″ x 96″	8′6″	53
119″	58″ x 104″	62″ x 108″	9′6″	57
133″	65″ x 116″	69″ x 120″	10′6″	72
161″	79″ x 140″	84″ x 144″	12′6″	88
WideScreen Format (1.85:1)				
99″	47″ x 87″	51″ x 90″	8′	48
108″	50″ x 92″	54″ x 96″	8′6″	50
120″	56″ x 104″	60″ x 108″	9′6″	55
132″	63″ x 116″	67″ x 120″	10′6″	72
162″	76″ x 140″	80″ x 144″	12′6″	88



Access/Series M



Apex

Apex

The first spring-roller screen with automatic ceiling closure.

The Apex is the first manually operated screen expressly designed for concealed installation. Extruded aluminum case installs above the ceiling. The Apex features a white closure panel at the bottom of the screen surface which seals the ceiling opening when the screen is retracted. Trim flange surrounds the perimeter of the screen case to finish the installation, whether in a suspended or drywall ceiling. Bottom of case and closure are finished in ceiling white. Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or High Contrast Grey.

System Options

- ***Extra Drop***—Up to 8′ overall height, either white or black (white is standard in AV format; black for all other formats).
- ***Black Masking Borders***—Borders are optional for Apex in AV format. They are standard for all other formats.
- ***Control Options***—Aluminum Operating Pole is furnished in one of two sizes: 4′ and 6′ as required.

Complete Access and Apex specifications: www.draperinc.com

Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format		
50″ x 50″	4′5½″	25
60″ x 60″	5′3½″	29
70″ x 70″	6′1½″	35
84″ x 84″	7′3½″	40
72″ x 96″	8′4″	47
96″ x 96″	8′4″	50

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
NTSC Format (4:3)				
6′	42½″ x 56½″	46½″ x 59½″	5′3½″	29
7′	50″ x 66½″	53½″ x 69½″	6′1½″	35
100″	60″ x 80″	64″ x 83½″	7′3½″	40
10′	69″ x 92″	73″ x 96″	8′4″	48

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
HDTV Format (16:9)				
92″	45″ x 80″	49″ x 83½″	7′3½″	37
106″	52″ x 92″	56″ x 96″	8′4″	47
WideScreen Format (1.85:1)				
99″	47″ x 87″	51″ x 90″	7′10″	37
108″	50″ x 92″	54″ x 96″	8′4″	47

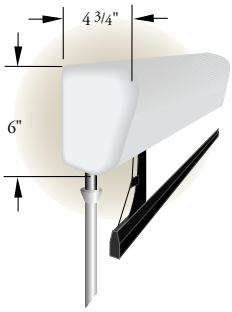
Silhouette

With a high-tech appearance.

We changed the appearance of projection screens with a revolutionary case design. The Silhouette's case conceals everything:

- **Mounting fixtures** • **Fasteners**
- **Viewing surface retracts completely inside case**

The innovative case installs cleanly, and the front fascia is easily removable for access to the inside components. Its slender fascia and endcaps are made of gently radiused aluminum and present a strikingly modern appearance. There is no need to conceal the Silhouette—it will complement the other high-tech equipment in your room.

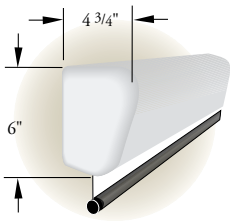


Silhouette/Series C

Silhouette/Series C

U.S. Patent No. 5,296,964 and 6,111,694.

Silhouette/Series C—Features Draper's Tab Tensioning System for a perfectly flat projection surface. Choose M1300, M2500, HiDef Grey or Cineflex rear projection viewing surface. See page 14 for more on the benefits of Tab Tensioning.



Silhouette/Series M

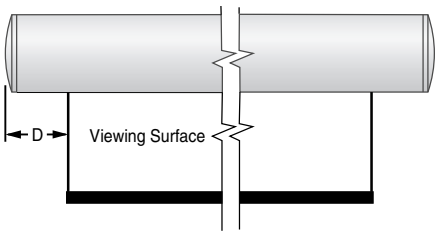
Silhouette/Series M

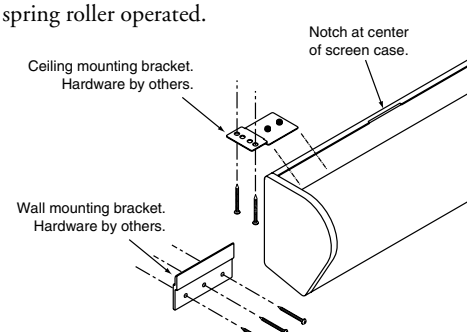
Silhouette/Series M—Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or High Contrast Grey.

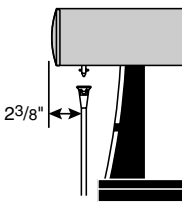
System Options

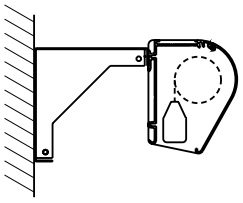
- ***Case Finishes***—Choose a dove grey (standard), black or white lightly textured finish (see page 17). Dowels on both Series retract completely inside case.
- ***Extra Drop***—Up to 8′ overall height, either white or black (white is standard for Series C in all formats and for Series M in AV format; black is standard for Series M in all other formats). Extra drop will increase the overall length of the case of a Series C.
- ***Black Masking Borders***—Borders are optional for Series M in AV format. Borders are standard for Series M in all other formats and for all Series C screens.
- ***Control Options***—Series C is operated by a slim, polished aluminum crank, which may be detached for storage. Series M is spring roller operated.

Silhouette	*Operation*	*D*
Series M	**Spring**	1 1/2"
Series C	**Crank**	Varies
Tab Tensioned		









Mounting on optional Extension Wall Brackets

Size HxW	Series M Case Length*	Net Wt. (lbs.)	Series C Case Length*	Dowel Length	Net Wt. (lbs.)
Audio Visual Format					
50″ x 50″	4′4½″	18	6′¾″	5′	30
60″ x 60″	5′2½″	21	6′11¾″	5′11″	32
70″ x 70″	6′½″	25	7′9¾″	6′10″	37
84″ x 84″	7′2½″	28	9′1″	8′	43
6′ x 8′	8′3″	29	9′11¾″	9′	54
8′ x 8′	8′3″	33	10′2½″	9′1½″	56

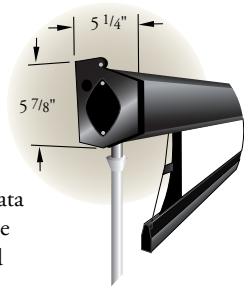
* Extra drop may increase case and/or dowel length. Consult factory if this dimension is critical.

Complete Silhouette specifications: www.draperinc.com

Size Nom. Diag.	Series M Image Area HxW	Case Length*	Net Wt. (lbs.)	Series C Image Area HxW	Case Length*	Dowel Length	Net Wt. (lbs.)
NTSC Format (4:3)							
6′	42½″ x 56½″	5′2½″	20	42½″ x 56½″	6′7¼″	5′6½″	36
7′	50″ x 66½″	6′½″	24	50″ x 66½″	7′5¼″	6′4½″	40
100″	60″ x 80″	7′2½″	25	60″ x 80″	8′7¾″	7′7″	44
10′	69″ x 92″	8′3″	29	72″ x 96″	9′11¾″	9′0	51
HDTV Format (16:9)							
92″	45″ x 80″	7′2½″	25	45″ x 80″	8′6¾″	7′6″	47
106″	52″ x 92″	8′3″	29	52″ x 92″	9′6¾″	8′6″	51
WideScreen Format (1.85:1)							
99″	47″ x 87″	7′9″	25	47″ x 87″	9′1¾″	8′1″	44
108″	50″ x 92″	8′3″	29	50″ x 92″	9′6¾″	8′6″	51

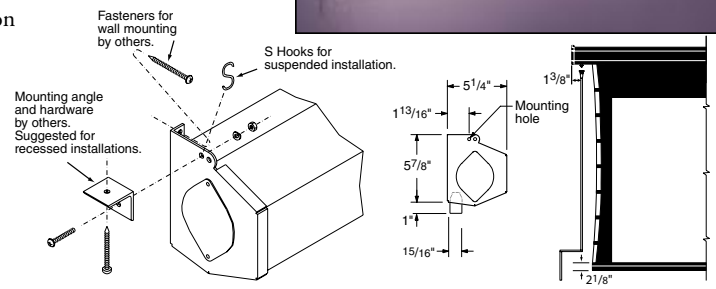
Premier/Series C

Crank-Operated Screen with Tensioning.



Premier/Series C—the manually operated screen with a perfectly flat viewing surface. Its Tab Tensioning System delivers perfect picture quality and meets the exacting requirements of large-screen video and data projection. Operated by a slim, polished aluminum crank, which may be detached for storage. Steel case and special tensioning dowel are finished in flat black.

Your choice of M1300, M2500, HiDef Grey or Cineflex rear projection viewing surface. See page 14 for more benefits of Tab Tensioning.



System Options

- ***Extra Drop***—Up to 12′ overall height, either white or black (white is standard). Extra drop will increase the overall length of the case.
- ***Black Masking Borders***—Standard for all formats.
- ***Projected Mounting Brackets***—provides a 6″ clearance.

Size HxW	Case Length*	Dowel Length*	Net Wt. (lbs.)
Audio Visual Format			
50″ x 50″	5′8″	5′	30
60″ x 60″	6′6¾″	5′11″	35
70″ x 70″	7′5″	6′10″	40
84″ x 84″	8′8¼″	8′	50
72″ x 96″	9′7″	9′	55
96″ x 96″	9′9¾″	9′1½″	60
7′ x 9′	10′8¼″	10′	60
9′ x 9′	10′9¾″	10′2″	65
8′ x 10′	11′9¾″	11′1½″	70
10′ x 10′	11′11½″	11′3¾″	75
9′ x 12′	13′9¾″	13′2″	80
12′ x 12′	14′3½″	13′5½″	85

Size Nom. Diag.	Image Area HxW	Case Length*	Dowel Length*	Net Wt. (lbs.)
NTSC Format (4:3)				
6′	42½″ x 56½″	6′2″	5′6½″	35
7′	50″ x 66½″	7′1¼″	6′4½″	40
100″	60″ x 80″	8′1¾″	7′7″	50
10′	72″ x 96″	9′7″	9′	55
11′	78″ x 104″	10′4¼″	9′8″	60
150″	87″ x 116″	11′4¼″	10′9½″	70
15′	108″ x 144″	13′9¾″	13′2″	80
HDTV Format (16:9)				
92″	45″ x 80″	8′1½″	7′6″	50
106″	52″ x 92″	9′2″	8′6″	60
119″	58″ x 104″	10′2″	9′7″	65
133″	65″ x 116″	11′3″	10′7″	70
161″	79″ x 140″	13′4¼″	12′8″	80

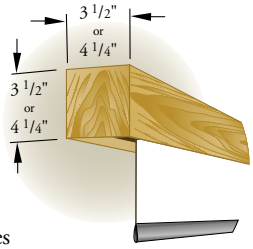
Size Nom. Diag.	Image Area HxW	Case Length*	Dowel Length*	Net Wt. (lbs.)
WideScreen Format (1.85:1)				
99″	47″ x 87″	8′9″	8′1″	55
108″	50″ x 92″	9′2″	8′6″	60
120″	56″ x 104″	10′2″	9′7″	65
132″	63″ x 116″	11′3″	10′7″	70
162″	76″ x 140″	13′4¼″	12′8″	80

*Extra drop increases length of case and dowel. Case may be recess-mounted. Dowel clearance for recessed mounting equals dowel length plus 1″.

Complete Premier and Artisan specifications: www.draperinc.com

Artisan/Series M

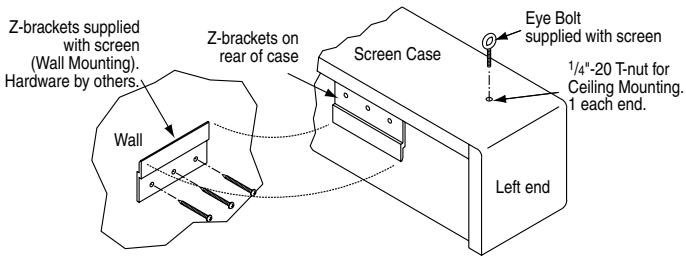
Hand-crafted to complement your room furnishings.



Artisan Series projection screens complement the fine furniture in your conference room. They are enclosed in solid hardwood cases with a variety of finishes to match virtually any decor—or in sleek, contemporary plastic laminate. Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or High Contrast Grey.

System Options

- ***Case Styles***—Hardwood cases are available in four styles. Refer to page 13.
- ***Case Finishes***—Choose from seven hardwoods and five laminates. Refer to page 13.
- ***Extra Drop***—Up to 8′ overall height, either white or black (white is standard on AV format; black for all other formats).
- ***Black Masking Borders***—Borders are optional for AV format screens and standard for all other formats.


Z-brackets supplied with screen (Wall Mounting). Hardware by others.
Z-brackets on rear of case
Screen Case
Eye Bolt supplied with screen
1/4"-20 T-nut for Ceiling Mounting. 1 each end.
Wall
Left end

Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format		
50″ x 50″	4′5″	17
60″ x 60″	5′3″	19
70″ x 70″	6′1″	21
84″ x 84″	7′4″	39
72″ x 96″	8′4″	42
96″ x 96″	8′4″	43

Size Nom. Diag.	Image Area HxW	Case Length	Net Wt. (lbs.)
NTSC Format (4:3)			
6′	42½″ x 56½″	5′3″	19
7′	50″ x 66½″	6′1″	21
100″	60″ x 80″	7′4″	33
10′	69″ x 92″	8′4″	38
HDTV Format (16:9)			
92″	45″ x 80″	7′4″	33
106″	52″ x 92″	8′4″	38
WideScreen Format (1.85:1)			
99″	47″ x 87″	7′10″	36
108″	50″ x 92″	8′4″	38

Luma 2

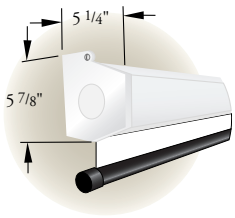
Heavy duty spring roller projection screen.

The Luma 2 is an attractive and practical choice wherever a large spring-roller screen is required. Simple in design and rugged in construction, the Luma 2 is housed in a white steel case with matching heavy-gauge endcaps. Fiberglass matt white, glass beaded and High Contrast Grey viewing surfaces available.

System Options

- ***Extra Drop***—Up to 12′ overall height, either white or black (white is standard in AV format; black for all other formats).
- ***Black Masking Borders***—Available on AV format screens: 1½″ wide in sizes through 70″ x 70″; 2″ wide in larger sizes. All other format screens have black borders to frame image on all four sides.
- ***Projected Mounting Brackets***—6″ fixed for all sizes; 12″ fixed and 16″–25″ adjustable for sizes through 8′ wide. Bracket information on page 43.
- ***Luma 2/R with Floor Stand***—Matt white (standard) or glass beaded projection screen designed to lay in the Floor Stand and pull up from its scratch-resistant case (at right). Case can be covered with black carpet. Adjustable Floor Stand of heavy gauge steel and anodized aluminum. Telescoping upright holds top of viewing surface when extended (maximum of 12′). Floor Stand weighs 25 lbs.

Luma 2/R with Floor Stand



Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format		
50″ x 50″	4′5½″	23
60″ x 60″	5′3½″	26
70″ x 70″	6′1½″	29
84″ x 84″	7′3½″	32
72″ x 96″	8′2⅝″	32
96″ x 96″	8′2⅝″	34
7′ x 9′	9′3¼″	37
9′ x 9′	9′3¼″	42
8′ x 10′	10′3¼″	41
10′ x 10′	10′3¼″	47
9′ x 12′	12′3¼″	55
12′ x 12′	12′3¼″	66

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
NTSC Format (4:3)				
100″	60″ x 80″	64″ x 83½″	7′3½″	32
10′	69″ x 92″	73″ x 95″	8′2⅝″	32
11″	78″ x 104″	83″ x 107″	9′3¼″	36
150″	87″ x 116″	92″ x 119″	10′3¼″	41
15′	105″ x 140″	109″ x 143″	12′3¼″	55

Case dimensions—5 3⁄16″ high x 5¼″ wide.
Hanging brackets extend ⅝″ above screen case.

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
HDTV Format (16:9)				
92″	45″ x 80″	49″ x 83½″	7′3½″	32
106″	52″ x 92″	56″ x 95″	8′2⅝″	32
119″	58″ x 104″	62″ x 107″	9′3¼″	35
133″	65″ x 116″	69″ x 119″	10′3¼″	39
161″	79″ x 140″	84″ x 143″	12′3¼″	54
WideScreen Format (1.85:1)				
99″	47″ x 87″	51″ x 90″	8′2⅝″	32
108″	50″ x 92″	54″ x 95″	8′2⅝″	32
120″	56″ x 104″	60″ x 107″	9′3¼″	35
132″	63″ x 116″	67″ x 119″	10′3¼″	40
162″	76″ x 140″	80″ x 143″	12′3¼″	53

Complete Luma 2, Luma 2/R and Evenroll specifications: www.draperinc.com

Evenroll Rope-and-Pulley

Simple and economical for large audiences.

When a large, roller-operated screen is required, choose the Evenroll. Sizes to 30′ x 30′, installs easily to wall or ceiling. Rope-and-pulley operation utilizes nylon marine pulleys and flanged spools for smooth operation, with no mistracking cords. Select fiberglass matt white or glass beaded viewing surface.

If screen installs in center of stage and operating cords are to extend to wall, be sure to indicate distance from edge of screen to wall and request extra cord, double wheel pulley, and cord cleat on wall plate. Batten and roller are 18″ wider than viewing surface (9″ on each side). Screen depth is 6″ (front to back). Maximum screen height when closed is 14″.

System Options

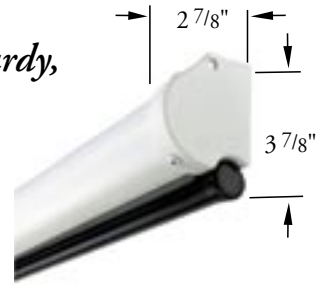
- ***Extra Drop***—Up to 30′ overall height, either white or black (white is standard).
- ***Black Masking Borders***—Available in 2″ widths.
- ***Wall Mounting Brackets***—Extend screen 12″ from wall. Formed of ¼″ strap steel. Divide screen width by 5 for proper number.

Flanged aluminum spools at ends of roller contain operating cords, preventing them from tracking into the viewing surface. Nylon marine pulleys operate smoothly and silently. Steel housings prevent cords from slipping off pulleys.

Size H x W	Ship Wt. (lbs.)	Size H x W	Ship Wt. (lbs.)
7′ x 14′	70	15′ x 20′	270
11′ x 14′	75	20′ x 20′	280
14′ x 14′	80	12′ x 24′	350
8′ x 16′	80	18′ x 24′	380
12′ x 16′	95	24′ x 24′	425
16′ x 16′	110	14′ x 28′	450
9′ x 18′	185	21′ x 28′	475
13′6″ x 18′	215	15′ x 30′	450
18′ x 18′	230	22′6″ x 30′	500
10′ x 20′	260	30′ x 30′	550

Star

Economy and durability in a sturdy, reliable classroom screen.

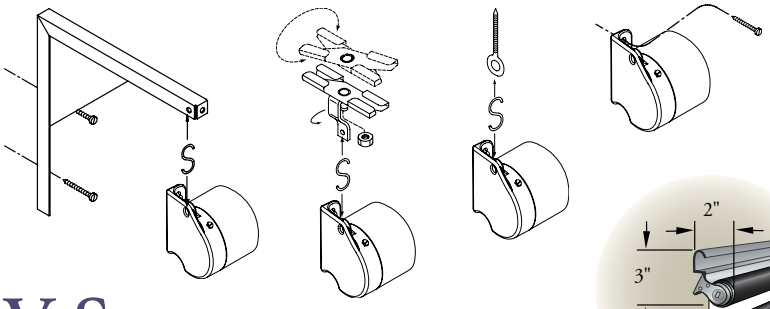


Durable construction and attractive design—at an economical price. Sturdy, cylindrical, white steel case. Heavy gauge endcaps have a matching finish and form universal hanging brackets for attachment to wall, ceiling or map rail hooks. Tearproof, flame retardant fiberglass matt white offers a sharp image from any viewing angle.

System Options

- ***Extra Drop***—Up to 84″ overall height, either white or black (white is standard).
- ***Black Masking Borders***—Available 1½″ wide in sizes through 70″ x 70″; 2″ wide in larger sizes.
- ***Pull Cord***—For all sizes 70″ wide and larger, or any size shipping with wall extension brackets, a pull cord is factory attached.
- ***Mounting Options***—Projected Mounting Brackets—6″ and 12″ fixed, and 16″–25″ adjustable; T-Bar Twist Clips; or mount to the wall or ceiling.

Brackets *T-bar Twist Clips* *Ceiling* *Wall*

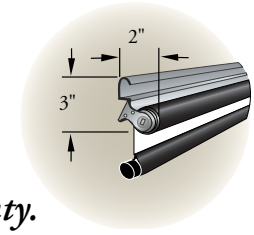


Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format		
50″ x 50″	52¼″	7
60″ x 60″	62¼″	8
70″ x 70″	72¼″	12
84″ x 84″	86¼″	15

Complete Star and V Screen specifications: www.draperinc.com

V Screen

The only screen with a 5-year warranty.

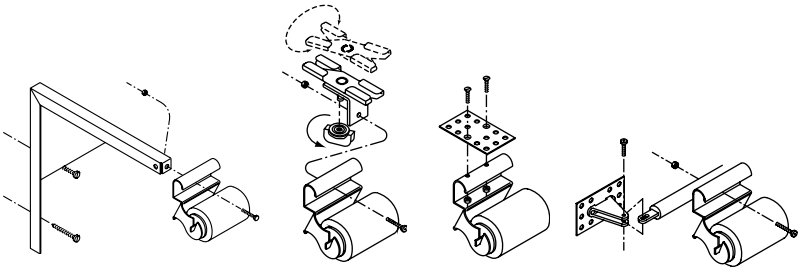


The Draper V Screen offers extremely durable construction at very reasonable prices. Due to the extreme simplicity of its design, the V Screen has the longest life expectancy of any classroom screen. These exclusive features target the areas where many classroom projection screens wear out:

- ***Tearproof fiberglass matt white viewing surface.***
- ***High-tech fabric attachment prevents fabric from pulling off roller.***
- ***Patented design eliminates friction between viewing surface and metal parts.***
- ***VBar aluminum support attaches easily to wall, ceiling or map rails.***
- ***Warranted for five full years (see below).***

Mounting Options

- ***Projected Mounting Brackets***—6″ and 12″ fixed and 16″–25″ adjustable provides clearance for wall-mounted equipment below screen.
- ***T-Bar Twist Clips***—Mount to "T" irons in drop ceiling.
- ***Flat Steel Plates***—Permanently mount to ceiling or into corner.



Brackets *T-bar Twist Clips* *Ceiling* *Corner*

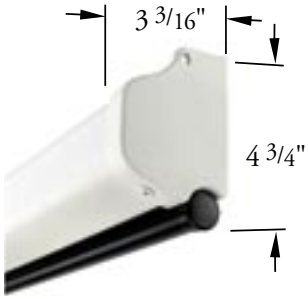
Size H x W	Overall Length	Closed Dims Height	Depth	Net Wt. (lbs.)
AV Format				
40″ x 40″	41⅛″	3¼″	2¼″	5
50″ x 50″	51⅛″	3¼″	2¼″	6
60″ x 60″	61⅛″	3¼″	2¼″	7
70″ x 70″	71⅛″	3¼″	2¼″	11
84″ x 84″	85⅛″	3⅝″	2⅝″	14
96″ x 96″	97⅛″	4″	3″	18
108″ x 108″	109⅛″	4⅛″	3⅛″	22

Five-Year Warranty

All Draper V Screens are warranted against defects in materials and/or workmanship for five (5) years from date of shipment from company.

Luma

Pentagonal-shaped case for wall- or ceiling-mounting.



The Luma projection screen is attractive and dependable in the classroom or conference room. Its case and endcaps have a scratch-resistant, white polyester finish. Heavy-gauge endcaps form universal hanging brackets for attachment to wall, ceiling or map rail hooks.

Your choice of a conventional viewing surface: fiberglass matt white, glass beaded or High Contrast Grey.

System Options

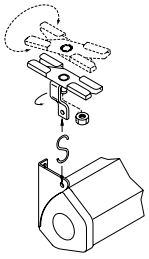
- ***Extra Drop***—Up to 8′ overall height, either white or black (white is standard for AV format, black for other formats).
- ***Black Masking Borders***—Available on AV format screens: 1½″ wide in sizes through 70″ x 70″; 2″ wide in larger sizes. All other formats have black borders on all four sides.
- ***Projected Mounting Brackets***—6″ and 12″ fixed, and 16″–25″ adjustable.
- ***Pull Cord***—For all sizes 70″ wide and larger, or any size shipping with wall extension brackets, a pull cord is factory attached.

Size H x W	Case Length	Net Wt. (lbs.)
Audio Visual Format		
50″ x 50″	52¼″	9
60″ x 60″	62¼″	11
70″ x 70″	72¼″	15
84″ x 84″	86¼″	20
72″ x 96″	98¼″	22
96″ x 96″	98¼″	23

Size Nom. Diag.	Image Area	Overall Size	Case Length	Net Wt. (lbs.)
NTSC Format (4:3)				
6′	42½″ x 56½″	46½″ x 59½″	62¼″	11
7′	50″ x 66½″	53½″ x 69½″	72¼″	14
100″	60″ x 80″	64″ x 83½″	89¼″	17
10′	69″ x 92″	73″ x 96″	98¼″	21
HDTV Format (16:9)				
92″	45″ x 80″	49″ x 83½″	89¼″	16
106″	52″ x 92″	56″ x 96″	98¼″	23
WideScreen Format (1.85:1)				
99″	47″ x 87″	51″ x 90″	92¼″	19
108″	50″ x 92″	54″ x 96″	98¼″	21

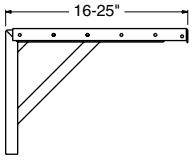
Manual Screen Mounting Accessories

T-Bar Twist Clips

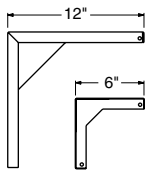


Mount screens directly to T-irons supporting suspended ceilings—without tools. For V Screen (all sizes); Luma and Star through 70″ wide.

16-25″ Adjustable Brackets



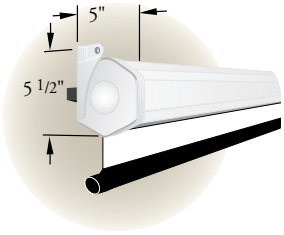
Heavy gauge angle steel brackets. Adjustable from 16″ to 25″ extension. For V Screen, Star, Luma Elite, and Luma (all sizes); Luma 2 through 8′ wide.



Non-Adjustable Brackets

Heavy gauge angle steel. Available in 6″ and 12″ extension. 6″ extension for V Screen, Star, Luma Elite, Luma, and Luma 2. 12″ extension for V Screen, Star, Luma Elite, and Luma (all sizes); Luma 2 through 8′ wide.

Complete Luma and Luma Elite specifications: www.draperinc.com



Luma Elite

Concealed tension arm holds surface flat.

The Luma Elite is similar to the Luma, plus an automatic tension arm to hold the viewing surface flat. Screen unrolls from its white case and is tensioned in one continuous motion. *Must be suspended from ceiling or from extension wall brackets (described above).*

Your choice of a conventional viewing surface: fiberglass matt white or glass beaded.

System Options

- ***Custom Sizes and Extra Drop***—Not available.
- ***Black Masking Borders***—Available in 1″ wide.
- ***Projected Mounting Brackets***—6″ and 12″ fixed, and 16″–25″ adjustable.

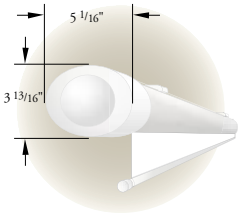
Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format		
50″ x 50″	53″	14
60″ x 60″	63″	17
70″ x 70″	73″	20

Salara/Series M

NEW

You've never seen a screen like this before.

In your home or office, the Salara makes a design statement on your wall.

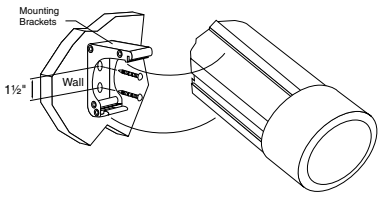


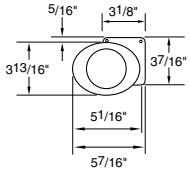
The Salara's small, elliptical case and domed endcaps are finished in solid white. Floating gunlatch wall mounting brackets grip the screen case securely and are barely visible.

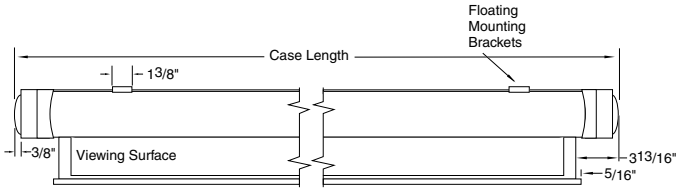
Your choice of conventional viewing surface: fiberglass matt white, glass beaded or High Contrast Grey.

System Options

- ***Extra drop***—Up to 8′ overall height, either white or black (white is standard for AV format, black for other formats).
- ***Black masking borders***—Borders are optional for AV format screens and standard for all other format screens.







Size HxW	Case Length	Net Wt. (lbs.)
Audio Visual Format		
50″ x 50″	4′9⅛″	18
60″ x 60″	5′7⅛″	21
70″ x 70″	6′5⅛″	25
84″ x 84″	7′7⅛″	30
72″ x 96″	8′7⅝″	33
96″ x 96″	8′7⅝″	36

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
NTSC Format (4:3)				
6′	42½″ x 56½″	46½″ x 59½″	5′7⅛″	20
7′	50″ x 66½″	53½″ x 69½″	6′5⅛″	24
100″	60″ x 80″	64″ x 83½″	7′7⅛″	29
10′	69″ x 92″	73″ x 96″	8′7⅝″	33

Size Nom. Diag.	Image Area HxW	Overall Size	Case Length	Net Wt. (lbs.)
HDTV Format (16:9)				
92″	45″ x 80″	49″ x 83½″	7′7⅛″	27
106″	52″ x 92″	56″ x 96″	8′7⅝″	32
WideScreen Format (1.85:17				
99″	47″ x 87″	51″ x 90″	8′1⅝″	29
108″	50″ x 92″	54″ x 96″	8′7⅝″	32

NEW

Exxpress

When time is money and every second counts.

The Exxpress combines compact size and portability with fast, easy setup. Set up the Exxpress in minutes! Just remove it from its luggage-style case...open it up...stand it up, and pull the side drapes around the frame.

Viewing Surface

The Exxpress viewing surface is made of SpanTec™, a flexible, flame retardant and acoustically transparent polyester material. Alpine White in color, SpanTec is solution dyed so it won't fade and is treated to resist stains. The surface comes attached securely to the frame with hook and loop (similar to Velcro®), and removes for machine washing. Surface is complete with black masking border, skirt and side drapes to conceal frame.

Velcro® is a registered trademark of Velcro Industries B.V.

Exxpress

Frame

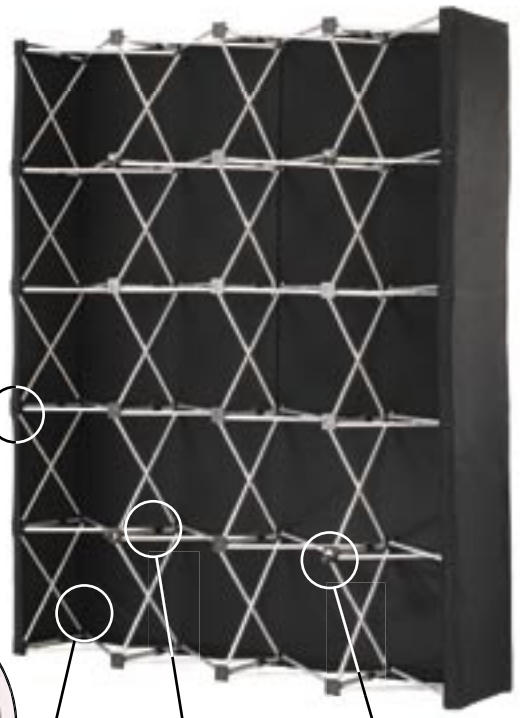
The Exxpress frame is constructed of satin anodized aluminum, and each section is octagonal in shape for extra strength. Metal fasteners hold the screen in place. The Exxpress is available in four NTSC sizes ranging from 100″ diagonal through 180″ diagonal. The Overall Size dimensions in the chart below include the black masking borders and skirt.

Size Nom. Diag.	Image Area HxW	Overall Size HxWxD	Skirt Height	Net Wt. (lbs.)
NTSC Format (4:3)				
100″	60″ x 80″	104⅜″ x 84″ x 18″	42⅜″	25
120″	72⅜″ x 96½″	125″ x 100½″ x 24″	50⅝″	29
150″	90¾″ x 121″	149½″ x 125″ x 24″	56¾″	34
180″	109″ x 145½″	174″ x 149½″ x 24″	63″	38

Case

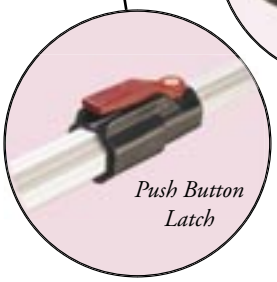
The Exxpress case is a soft bag with wheels and reinforcements similar to a suitcase. The handle is positioned lower on one end to make pulling easier. It sits upright and features three extra side pockets for storage (two on one side and one on the other).

Exxpress Case



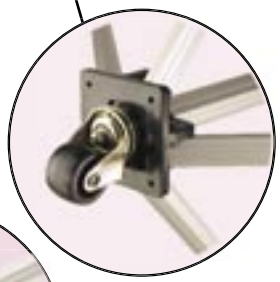
Metal fasteners along both sides hold the fabric tight to the frame

Surface comes attached to frame with Hook & Loop and may be detached for cleaning



Push Button Latch

Push-button latch releases tension for disassembly



Casters on selected joints aid portability

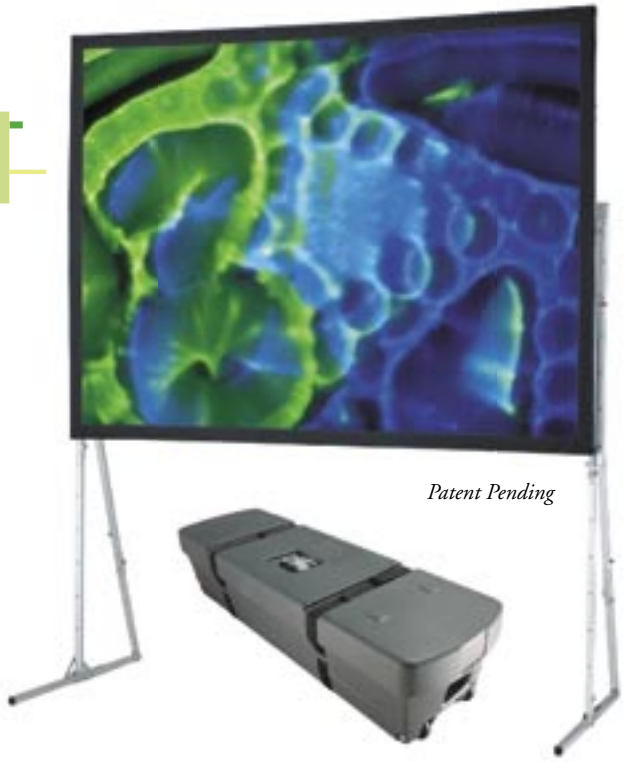
The Exxpress comes in its own wheeled case. Just unzip, extract from the bag, open it up, stand it up and position the side drape grommets onto the metal fasteners. It's quick and easy to assemble.

Ultimate Folding Screen

The world's most precisely manufactured folding screen.

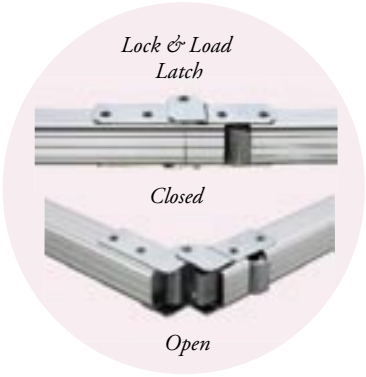
NEW

The new standard in portable folding screens, the Ultimate Folding Screen is the first screen manufactured with 100% CNC (Computer Numerical Controlled) components and assembly. The tubing is CNC machined, surfaces and borders are CNC cut; even rivet and snap holes are CNC placed. **No competitive product meets this standard—and we did not stop there.**



Patent Pending

Our new Lock & Load latch (patent pending) is designed for ease of operation and maximum life. Lock & Load mortise latches bite down when the surface is attached, making the frame extremely rigid. Latch parts are internal for better protection, and they completely fill the tube for superior strength. The resilient latch retention spring is captured and constantly flexed so that it cannot be dislodged. These advancements translate into the most user friendly and incredibly durable hinge locking mechanism available. Couple these advantages with clear anodized 1.25″ x .070 wall aluminum tubing and you've got the precision and stability that allows Draper to offer the Ultimate Folding Screen in sizes through 12′ x 16′.



System Options

- ***Viewing Surfaces***—Choose a flexible matt white for front projection or Cineflex vinyl for rear projection. For maximum flexibility, choose both! All surfaces—front and rear—have square corners. Borders are electronically welded using a new PVC material that provides straighter, cleaner edges.
- ***Sizes: Two Format Options Available***—UFS Standard Sizes (chart at right), and UFS Euro sizes (chart on page 47). Standard format viewing surfaces may be interchanged freely with Cinefold surfaces and have 2¾″ of black masking border. (Cinefold detailed on page 48.) Euro format viewing surfaces have 4″ of black masking border.
- ***Frame & Legs***—Standard Legs support the Ultimate Folding Screen in a vertical position. The screen may also be tilted for keystone elimination using Heavy-Duty Legs which offer extra stability using an adjustable gusset (screen pictured above has Heavy-Duty Legs). Super Heavy-Duty Legs are recommended for added stability on frame heights greater than 10½′.
- ***Carrying Case***—The Ultimate Folding Screen comes packed in Draper's heavy-duty, molded polyethylene wheeled carrying case. Designed for service and dependability, each case has two wheels. The handles are molded into each end of the case. Lid handle is steel with a rubber grip and recessed into an inset. Lid is secured with two adjustable straps. Multiple cases stack with lids on, or nest compactly with lids off.

UFS Standard Sizes

Overall Size H x W	Image Area	Nominal Diagonal	Net Wt. (lbs.)
Square Format (1:1)			
6′ x 6′	66½″ x 66½″	—	71
7′ x 7′	78½″ x 78½″	—	81
8′ x 8′[1]	90½″ x 90½″	—	87
9′ x 9′[1]	102½″ x 102½″	—	93
10′ x 10′[1]	114½″ x 114½″	—	99
12′ x 12′[2]	138½″ x 138½″	—	112
NTSC Format (4:3)			
54″ x 74″	48½″ x 68½″	7½′	66
62″ x 83″	56½″ x 77½″	100″	68
6′ x 8′	66½″ x 90½″	10′	73
7′6″ x 10′[1]	84½″ x 114½″	150″	74
9′ x 12′[1]	102½″ x 138½″	15′	87
10′6″ x 14′[2]	120½″ x 162½″	200″	93
144″ x 196″[2]	138½″ x 190½″	240″	106
HDTV Format (16:9)			
56″ x 96″	50½″ x 90½″	106″	74
62″ x 108″	56½″ x 102½″	119″	81
69″ x 120″	63½″ x 114½″	133″	87
83″ x 144″	77½″ x 138½″	161″	91
112″ x 196″[1]	106½″ x 190½″	220″	97
Slide Format (1.48:1)			
48″ x 72″	42½″ x 66½″	—	77
60″ x 90″	54½″ x 84½″	—	78
72″ x 108″	66½″ x 102½″	—	82
84″ x 126″	78½″ x 120½″	—	87
96″ x 144″[1]	90½″ x 138½″	—	89

[1] Heavy-Duty Legs are recommended for frame heights greater than 7½′.

[2] Super Heavy-Duty Legs are recommended for added stability on frame heights greater than 10½′.

Ultimate Folding Dress Kit

For a professional appearance.

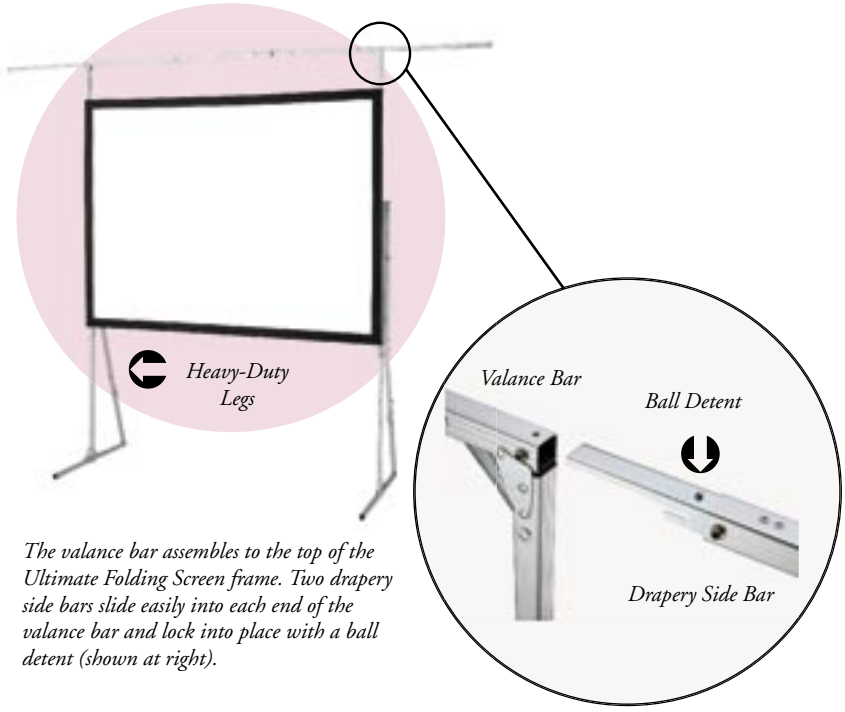
Make your presentation one to remember. Create a professional, theatre-like appearance by draping your Ultimate Folding Screen with an eye-catching velour Dress Kit. Drapery curtains surround the viewing surface, pulling the audience's focus to your presentation on the screen.

All Ultimate Folding Screen Dress Kit fabrics are flame proofed, meeting fire safety codes. In addition to framing your presentation, the velour curtains will hide projection equipment, shield projector light from the audience, and help eliminate ambient light in the projection area.

A complete Dress Kit includes 46″ skirt, 12″ valance, and two 32″ side drapes, all in rich velour. 100% CNC (Computer Numerical Controlled) valance bar and drapery bars fit snugly into the top of the Ultimate Folding Screen frame—no tools needed. The viewing surface is fitted with snaps to accept the skirt.

System Options

- ***Fabric***—20 oz. velour made from 100% cotton is offered in black (standard), rich navy (optional) or a variety of custom colors. Details available on request.
- ***Frame & Legs***—Heavy-Duty Legs are recommended with all Dress Kits.
- ***Carrying Case***—A carrying case is optional for all Dress Kits.



The valance bar assembles to the top of the Ultimate Folding Screen frame. Two drapery side bars slide easily into each end of the valance bar and lock into place with a ball detent (shown at right).

UFS Euro Sizes

Overall Size H x W	Image Area	Nominal Diagonal	Net Wt. (lbs.)
Square Format (1:1)			
6′8″ x 6′8″	72″ x 72″	—	75
8′2″ x 8′2″[1]	90″ x 90″	—	85
9′8″ x 9′8″[1]	108″ x 108″	—	91
11′2″ x 11′2″[2]	126″ x 126″	—	98
12′8″ x 12′8″[2]	144″ x 144″	—	104
14′8″ x 14′8″[2]	168″ x 168″	—	104
NTSC Format (4:3)			
5′2″ x 6′8″	54″ x 72″	90″	69
5′7″ x 7′3″	59″ x 79″	100″	71
6′8″ x 8′8″	72″ x 96″	120″	77
7′7″ x 9′10″[1]	83″ x 110″	138″	77
8′2″ x 10′8″[1]	90″ x 120″	150″	78
8′8″ x 11′4″[1]	96″ x 128″	160″	84
9′8″ x 12′8″[1]	108″ x 144″	180″	91
10′2″ x 13′4″[1]	114″ x 152″	190″	95
11′2″ x 14′8″[2]	126″ x 168″	200″	98
12′8″ x 16′8″[2]	144″ x 192″	240″	111
HDTV Format (16:9)			
4′8″ x 7′10″	48″ x 86″	98″	75
5′7″ x 9′5″	59″ x 105″	120″	85
6′8″ x 11′4″	72″ x 128″	147″	92
8′2″ x 13′11″[1]	90″ x 159″	183″	96
9′8″ x 16′8″[1]	108″ x 192″	220″	103
Slide Format (1.48:1)			
4′8″ x 6′8″	48″ x 72″	—	81
5′7″ x 8′	59″ x 88″	—	83
6′8″ x 9′8″	72″ x 108″	—	87
7′7″ x 10′11″[1]	83″ x 123″	—	92
8′8″ x 12′8″[1]	96″ x 144″	—	94

[1] Heavy-Duty Legs are recommended for frame heights greater than 7½′.

[2] Super Heavy-Duty Legs are recommended for added stability on frame heights greater than 10½′.

Cinefold

The original folding screen in a wheeled case.

Cinefold is a portable screen that packs into an innovative case with wheels. Trainers, presenters, producers, everyone who takes a show on the road will appreciate the Cinefold's many advantages. Every Cinefold sets up quickly without tools, and collapses into a compact luggage-type wheeled case for travel or storage.

The Cinefold frame and legs are built of 1″ square structural aluminum tubing and are conveniently color-coded and labeled for quick assembly. Steel hardware is cadmium plated. When assembled, the bottom of the frame is normally 44″ above the floor and adjusts in 6″ increments. Hinges are tempered steel and lock positively. Frame, legs, viewing surfaces and accessories are all standardized for easy replacements or additions to the system. Front projection and rear projection surfaces are easily interchangeable. Sizes and formats to meet virtually any specification: custom and truss sizes available.

System Options

- *Viewing Surfaces*—Choose a flexible matt white for front projection or Cineflex vinyl for rear projection. Surfaces are bordered in black and are interchangeable.
- *Sizes*—Standard sizes are shown below. Multi-image and custom sizes available.
- *Carrying Case*—The Cinefold comes packed in Draper's heavy-duty, molded polyethylene wheeled carrying case. Designed for service and dependability, each case has two wheels. The handles are molded into each end of the case. Lid handle is steel with a rubber grip and recessed in an inset. Lid is secured with two adjustable straps. Multiple cases stack with lids on, or nest compactly with lids off.

Overall Size H x W	Image Area	Nominal Diagonal	Shipping Wt. (lbs.)	Carrying Case Size (in. H x W x L)
Square Format (1:1)				
5′ x 5′	56″ x 56″	—	56	9½″ x 13½″ x 45″
6′ x 6′	68″ x 68″	—	57	9½″ x 13½″ x 45″
7′ x 7′	80″ x 80″	—	65	12″ x 15¾″ x 52″
8′ x 8′	92″ x 92″	—	70	12″ x 15¾″ x 58″
9′ x 9′[1]	104″ x 104″	—	75	12″ x 15¾″ x 52″
10′ x 10′[1]	116″ x 116″	—	80	12″ x 15¾″ x 52″
12′ x 12′[1]	140″ x 140″	—	90	12″ x 15¾″ x 58″
NTSC Format (4:3)				
47″ x 60″	43″ x 56″	6′	53	9½″ x 13½″ x 45″
54″ x 74″	50″ x 70″	7½′	55	9½″ x 13½″ x 45″
62″ x 83″	58″ x 79″	100″	59	12″ x 15¾″ x 52″
6′ x 8′	68″ x 92″	10′	60	9½″ x 13½″ x 45″
7′6″ x 10′	86″ x 116″	150″	70	12″ x 15¾″ x 52″
9′ x 12′[1]	104″ x 140″	15′	75	12″ x 15¾″ x 52″
10′6″ x 14′[2]	122″ x 164″	200″	85	12″ x 15¾″ x 52″
HDTV Format (16:9)				
56″ x 96″	52″ x 92″	106″	60	9½″ x 13½″ x 45″
62″ x 108″	58″ x 104″	119″	65	9½″ x 13½″ x 45″
69″ x 120″	65″ x 116″	133″	70	9½″ x 13½″ x 45″
83″ x 144″	79″ x 140″	161″	73	12″ x 15¾″ x 52″
Slide Format (1:1.48)				
4′ x 6′	44″ x 68″	—	55	9½″ x 13½″ x 45″
5′ x 7′6″	56″ x 86″	—	62	9½″ x 13½″ x 45″
6′ x 9′	68″ x 104″	—	63	9½″ x 13½″ x 45″
7′ x 10′6″	80″ x 122″	—	70	12″ x 15¾″ x 52″
8′ x 12′[1]	92″ x 140″	—	72	12″ x 15¾″ x 52″

[1] Heavy-duty legs recommended.

[2] Heavy-duty legs and anti-sway stabilizers recommended.

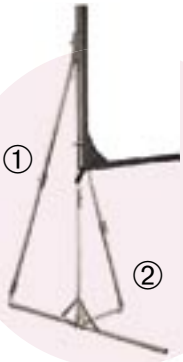
Please Note: *Shipping weights and carrying cases are based on one standard Cinefold: frame, standard T-legs, snap-on viewing surface and carrying case. Options may increase the weight and/or the carrying case size. Custom sizes are available—Inquire if the size you need is not shown.*

T-Legs

Standard legs constructed of sturdy 1″ square hard-alloy structural aluminum tubing, clear etched and anodized for long life. Hinged inverted "T" shape, with rubber-tipped feet.

Keystone Elimination

T-legs may be adjusted to allow the Cinefold to tilt forward up to 8°. Eases viewing and helps to compensate for image distortion.



① *Heavy-Duty Legs*

Extra reinforcement against front-to-back movement. Strongly recommended for any screen over 7½′ x 10′ or for any screen used with a Dress Kit.

② *Anti-Sway Stabilizers*

Reinforce against side-to-side movement. May be mounted either inside or outside Cinefold leg. Recommended for screens over 10½′ x 14′ and for use with Dress Kits.

Joining Clamp

Join two or more screens for a really wide screen. Clamps join screen frames from back, then L-shaped section wraps to front and accepts snaps on masking strips. Masking strips conceal hardware and provide image continuity. White masking for use with matt white; black for Cineflex.

Truss-Style Cinefold

For larger-than-life presentations.

The Truss-Style Cinefold has extra-rigid truss-style frames and legs constructed of parallel sections of 1″ square hard-alloy aluminum tubing, heliarc welded to form a sturdy 6″ wide truss. All aluminum is clear satin anodized for long life; steel parts are cadmium plated. Truss frames have 6″ wide piano hinges reinforced by two positive locking hinge latches and a Handy Crank directly through the hinge point.

All Truss-Style Cinefolds include heavy-duty legs and anti-sway stabilizers.

System Options

- *Viewing Surfaces*—Truss-Style Cinefolds are available with flexible matt white front and Cineflex rear projection surfaces.
- *Carrying Case*—Two or more heavy-duty, molded polyethylene wheeled carrying cases are included. Dimensions are 13″ h x 20⅝″ w x 84⅛″ l.
- *Dress Kits*—Optional Dress Kit includes: 44″ skirt, 12″ valance and two 32″ side drapes, all in rich velour. Tubular aluminum valance bar and drapery bars attach without tools to the Dress Kit fittings found on all Truss-Style Cinefold frames. The viewing surface is fitted with snaps to accept the skirt or select optional adjustable skirt bar. Skirt bar allows for adjustment of screen size and aspect ratio by raising the skirt in 6″ increments.

Overall Size	Image Area	Shipping Wt. (lbs.)	No. Cases
Square Format (1:1)			
9′ x 9′	8′ x 8′	220	2
10′ x 10′	9′ x 9′	220	2
11′ x 11′	10′ x 10′	230	2
13′ x 13′	12′ x 12′	240	2
NTSC Format (4:3)			
7′ x 9′	6′ x 8′	215	2
8′6″ x 11′	7′6″ x 10′	220	2
10′ x 13′	9′ x 12′	230	2
11′6″ x 15′	10′6″ x 14′	255	2
13′ x 17′	12′ x 16′	265	2
16′ x 21′	15′ x 20′	275	2
19′ x 25′	18′ x 24′	310	3
HDTV Format (16:9)			
10′ x 17′	9′ x 16′	220	2
11′ x 19′	10′ x 18′	240	2
12′3″ x 21′	11′3″ x 20′	255	2
14′6″ x 25′	13′6″ x 24′	300	3

Please note: *Shipping weight and number of cases are based on one* Truss-Style Cinefold, *with frame, heavy-duty legs, anti-sway stabilizers, one viewing surface in pouch and carrying cases. Screens with additional viewing surfaces and hardware will be heavier and may require additional cases.*

Handy Cranks

Handy Cranks are 5⁄16″ dia. crankbolts, for quick assembly without tools for both the Cinefold and Truss-Style Cinefold.

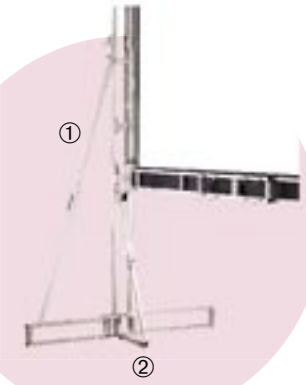
L-Brace

All Cinefolds over 25′ wide feature a special back brace consisting of a full-width truss attached to the top of the frame at right angles to the screen. Adds strength and prevents sagging, while maintaining complete portability.

Frame Stiffeners

All horizontal hinges on Truss-Style Cinefolds are reinforced by truss frame stiffeners, which mount across the back of the hinge and are held rigidly in place by 8 Handy Cranks.

① *Heavy-Duty Legs*

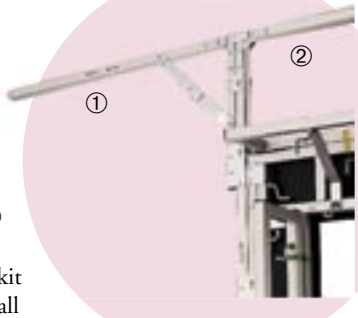


Standard equipment on all Truss-Style Cinefolds, heavy-duty legs reinforce against front-to-back movement.

② *Anti-Sway Stabilizers*

Furnished with all Truss-Style Cinefolds to prevent side-to-side movement. Install to inside or outside of truss foot.

Dress Kits



A complete Dress Kit includes: 44″ skirt, 12″ valance and two 32″ side drapes, all in rich velour. Tubular aluminum side drapery bars ① and valance bar ② attach without tools to the dress kit fittings found on all Cinefold frames. The viewing surface is fitted with snaps to accept the skirt, or select optional adjustable skirt bar. Skirt bar allows for adjustment of screen size and aspect ratio by raising the skirt in 6″ increments.

Dress Kits

Dress up your presentation.

For a memorable presentation, you can give your Cinefold or Truss-Style Cinefold a professional, cinema-like appearance with a striking velour Dress Kit. Stage curtains surround the viewing surface, focus the audience's attention on the screen and frame your visual presentation.

All Dress Kit fabrics are flame proofed, meeting fire safety codes. Dress Kits are especially worthwhile for rear screen presentations. Besides improving the appearance of the screen, the velour curtains conceal the projection equipment, shield the audience from projector light and help exclude ambient light in the projection area.

Your Dress Kit Includes...

A complete Dress Kit includes 46″ skirt, 12″ valance, and two 32″ side drapes, all in rich velour. Tubular aluminum valance bar and drapery bars attach without tools to the dress kit fittings found on all Cinefold and Truss-Style Cinefold frames. They are fitted with brackets that slip easily over the shoulder rivets mounted on all Cinefold frames, then lock in position.

The viewing surface is fitted with snaps to accept the skirt, or select optional adjustable skirt bar. Skirt bar allows for adjustment of screen size and aspect ratio by raising the skirt in 6″ increments.

System Options

- ***Fabric***—20 oz. velour made from 100% cotton is offered in black (standard), rich navy (optional) or a variety of custom colors. Details available on request.
- ***Hardware***—Heavy-Duty Legs and Anti-Sway Stabilizers (both pictured at right), are highly recommended for all Cinefolds with Dress Kits. They are standard with all Truss-Style Cinefolds.
- ***Carrying Case***—A wheeled, polyethylene carry case is highly recommended for each Dress Kit.

At right: Cinefold with Cineflex viewing surface, valance bar, drapery bars, skirt bar, Heavy-Duty Legs and Anti-Sway Stablilzers. Above: navy velour drapes attached to Cinefold.

Pipe & Drape Runoffs

This universal portable Pipe & Drape Runoff (PDR) system can extend the theatre-like appearance of a Cinefold, Truss-Style Cinefold or Ultimate Folding Screen Dress Kit on either side of your screen. PDR is a completely free-standing modular system that can be assembled in minutes to virtually any size or configuration—without tools. Also suitable for use as a room divider or to mask unsightly areas.

View of the back of a Cinefold with Dress Kit and Pipe & Drape Runoffs.

Drape panels are available in 13′ or 50″ widths, to be reduced for fullness. Height of 12′ or 16′, with hems top and bottom to accept horizontal drape supports. All fabrics are flame retardant.

Fabrics

- ***Velour***—100% cotton. Black or rich navy. Additional custom colors are available. Details available on request.
- ***Vellite***—Lightweight brushed polyester. Black or rich navy.
- ***Classic Twill***—Lightweight polyester with special weave to reduce wrinkling and subdue luster. Black or rich navy. Additional custom colors are available. Details available on request.
- ***Poly-Knit***—Lightweight smooth polyester. Black or rich navy.

Horizontal Drape Support

Infinitely adjustable, with preset positive locking stops—10′ length, with stops at 6′, 8′ and 10′. 12′ length, with stops at 7′, 10′ and 12′. Attaches to uprights with sturdy steel hook and slot.

Slip-Lok Upright

Telescoping uprights are infinitely adjustable from minimum to maximum height settings. Friction lock bears virtually any weight, yet has fingertip release.

Steel Bases

Sturdy and inconspicuous. Alternate stud positions allow for setup against a wall or in a corner. ⅜″ x 18″ x 18″ (35 lbs.) or choose lightweight base, 3/16″ x 18″ x 18″ (18 lbs.).

Diplomat

Built-in keystone eliminator.

The Diplomat combines simplicity of design, rugged components and careful workmanship. Easy setup and one-hand case adjustment make the Diplomat a pleasure to use. Suspension slat saddle in all sizes maintains a flat viewing surface. Exclusive Bell Leg Lock protects the Diplomat's sturdy gabled aluminum legs during storage and transportation (see detail photo). Your choice of viewing surfaces: fiberglass matt white, glass beaded or High Contrast Grey.

Keystone Eliminator

Bell Leg Lock

U.S. Patent No. 4,097,013

System Options

- ***Case Color***—Steel case and endcaps finished in black. Case measures 4″ high x 3⅛″ wide.
- ***Black Masking Borders***—Optional for AV format screens, standard for all other formats.
- ***Keystone Eliminator***—The Diplomat's built-in keystone eliminator extends 18″. Invisible when not in use.
- ***Patented Bell Leg Lock***—Exclusive Bell Leg Lock clamps legs securely to center tube for storage and transportation. Eliminates all risk of bent or broken legs. Releases easily for setup.
- ***Carrying Case***—Black leatherette zippered carrying case is available for storage and transportation.

Size H x W	Net Wt. (lbs.)	Case Length	Bottom of screen at lowest level	Top of screen at highest level
AV Format—Consul Tripod Screen				
40″ x 40″	12	42¼″	16½″	78″
50″ x 50″	14	52¼″	16½″	92″
60″ x 60″	19	62¼″	20″	107¼″
70″ x 70″	21	72¼″	20″	109¼″
AV Format—Diplomat and Diplomat/R Tripod Screens				
50″ x 50″	23	52¼″	17″	100¼″
60″ x 60″	26	62¼″	18½″	110¾″
70″ x 70″	26	72¼″	18½″	126¾″
84″ x 84″	32	86¼″	19¾″	126¾″
72″ x 96″	37	98¼″	19¾″	126¾″
96″ x 96″	39	98¼″	19¾″	126¾″

Size Nominal Diagonal	Image Area	Overall Size	Net Wt. (lbs.)	Case Length	Bottom of screen at lowest level	Top of screen at highest level
NTSC Format (4:3)—Diplomat and Diplomat/R Tripod Screens						
6′	42½″ x 56½″	46½″ x 59½″	24	62¼″	18½″	110¾″
7′	50″ x 66½″	53½″ x 69½″	27	72¼″	18½″	126¾″
100″	60″ x 80″	64″ x 83½″	31	89¼″	19¾″	126¾″
10′	69″ x 92″	73″ x 96″	37	98¼″	19¾″	126¾″

Diplomat/R

Case finished for durability in the rental marketplace.

All the best features of the Diplomat made more durable to withstand the wear and tear of the rental market. The standard case for a Diplomat/R is scratch resistant baked-on black plastisol on steel. Or choose a rugged, black carpet covered case (pictured above). In same standard sizes as the Diplomat.

Optional Carrying Case for Diplomat, Diplomat/R and Consul.

Consul

Quality and economy.

Lightweight yet durably constructed, the Consul is designed specifically for audiovisual use. Specified for schools worldwide. The Consul's legs are of sturdy gabled steel. 60″ and 70″ sizes feature suspension slat saddle, keeping viewing surface flat. Case adjusts easily to any level on tripod upright.

Choice of viewing surfaces: fiberglass matt white or glass beaded.

System Options

- ***Case Color***—Steel case and endcaps finished in black. Case measures 3½″ high x 2¾″ wide.
- ***Black Masking Borders***—1½″ borders are optional.
- ***Carrying Case***—Black leatherette zippered carrying case.
- ***Optional Keystone Eliminator***—Will extend top of viewing surface up to 9″.

RoadWarrior

The ultra portable screen for today's ultra portable projectors.

The Draper RoadWarrior lets you travel light and still deliver a big presentation. Designed with today's presenter in mind, the RoadWarrior has a strikingly modern appearance.

Setting up the RoadWarrior is a snap. Screen height adjusts instantly, at the touch of a finger. Extend the screen to desired height (pneumatic cylinders support it at any level). Includes 30″ of black "rise" below the image area.

It's available in four sizes, and sets up in seconds just where you want it—floor or table. Release two clasps to open the lid. Rotate feet into position for stability. Aluminum housing and feet are sturdy and streamlined. Detachable shoulder strap included.

System Options

- *Viewing Surfaces*—Compatible with resolutions up to 1200 x 1600 and beyond, its tear-resistant fiberglass matt white screen surface is designed for computer-driven presentations and meets the needs of today's LCD projectors and computer-generated text—high resolution, broad viewing cone and accurate color rendition. Also available in glass beaded and High Contrast Grey. All viewing surfaces have ¾″ black borders at sides and are supported by ⅞″ black aluminum dowel with full-width slat saddle.
- *Padded Carrying Case*—Draper's Padded Carrying Case will protect your RoadWarrior from life's hard knocks. Constructed of ½″ thick shock-absorbing material sandwiched between tear-resistant black nylon inner and outer sleeves. Case protects screen from dents, scuffs and scratches. Zippered case has heavy nylon strap (removable) for easy transport.

Optional Padded Carrying Case

Back view of RoadWarrior with pneumatic cylinders

Nominal Diagonal	Image Area (H x W)	Height Range	Shipping Wt. (lbs.)	Net Wt. (lbs.)	Dimensions Closed (D x H x L)
NTSC Format (4:3)					
60″	36″ x 48″	41″–69¼″	23	21	4½″ x 5″ x 53½″
80″	48″ x 64″	53″–81¾″	24	22	4½″ x 5″ x 69½″
HDTV Format (16:9)					
55″	27″ x 48″	32″–69¼″	23	21	4½″ x 5″ x 53½″
73″	36″ x 64″	41″–81¾″	24	22	4½″ x 5″ x 69½″

Traveller

Attractive, simple and lightweight—sets up in seconds.

It doesn't make sense to hit the road with a 5-pound projector and a 35-pound screen. Lighten up with the Traveller.

Designed with today's presenter in mind, the Traveller is similar in appearance to the RoadWarrrior, with a lightweight, simplified design. Self contained in a sturdy, extruded aluminum case, the Traveller is durable and easy to carry.

Setting up the Traveller is easy. Just place it on the floor or table. Release two clasps to open the lid. Rotate feet into position for stability. Raise screen to desired height. Includes 42″ of black "rise" below the image area. An infinitely adjustable telescoping support twist locks to position screen at desired height.

System Options

- ***Viewing Surfaces***—Compatible with resolutions up to 1200 x 1600 and beyond, its tear-resistant fiberglass matt white screen surface is designed for computer-driven presentations and meets the needs of today's LCD projectors and computer-generated text—high resolution, broad viewing cone and accurate color rendition. Also available in glass beaded and High Contrast Grey. All viewing surfaces have ¾″ black borders at sides and are supported by ⅞″ black aluminum dowel with full-width slat saddle.
- ***Padded Carrying Case***—Draper's Padded Carrying Case will protect your Traveller from life's hard knocks. Constructed of ½″ thick shock-absorbing material sandwiched between tear-resistant black nylon inner and outer sleeves. Case protects screen from dents, scuffs and scratches. Zippered case has heavy nylon strap (removable) for easy transport.

Optional Padded Carrying Case

Nominal Diagonal	Image Area (H x W)	Height Range	Shipping Wt. (lbs.)	Net Wt. (lbs.)	Dimensions Closed (D x H x L)
NTSC Format (4:3)					
50″	30″ x 40″	45½″–77½″	16	14	4½″ x 5″ x 46½″
60″	36″ x 48″	45½″–83½″	17	15	4½″ x 5″ x 54½″
72″	43½″ x 58″	63½″–91″	21	19	4½″ x 5″ x 63½″
80″	48″ x 64″	63½″–95½″	24	21	4½″ x 5″ x 70½″
100″	60″ x 80″	63½″–107½″	27	25	4½″ x 5″ x 86½″
HDTV Format (16:9)					
46″	22½″ x 40″	45½″–77½″	16	14	4½″ x 5″ x 46½″
55″	27″ x 48″	45½″–83½″	17	15	4½″ x 5″ x 54½″
66½″	32½″ x 58″	63½″–91″	21	19	4½″ x 5″ x 63½″
73″	36″ x 64″	63½″–95½″	24	21	4½″ x 5″ x 70½″
92″	45″ x 80″	63½″–107½″	27	25	4½″ x 5″ x 86½″

Above: back view of Traveller with Telescoping Upright. Below: screen is self contained in a sturdy, extruded aluminum case.

Rear Projection Screens

From the acknowledged leader in the most demanding area of the industry come 5 unique rear screens.

Each rear projection system has a unique set of parameters which define what screen is required—audience seating pattern, projection equipment (light output, resolution and image format) and ambient light level. Draper is the industry leader in the development of rigid rear projection screens. Only Draper can provide *five* unique rear projection screen technologies to satisfy any requirement.

- IRUS—Infinite Resolution Uniformity Screen—Proprietary technology, available only from Draper. The IRUS is designed specifically for use with high resolution single lens video and data projectors. Provides a crisp, clear image with SXGA and UXGA displays. Page 56.
- Cinescreen®—Draper's diffusion coated projection screen. Our wide range of optical coatings and tints allows you to select a combination that's customized to fit your exact application. Suitable for use with CRT or single-lens video and data projectors, as well as traditional audio-visual projection formats. Page 57.
- Vortex—This unique new rear screen combines the benefits of diffusion and optical technologies. Provides an exceptionally wide viewing cone—in both horizontal and vertical axes—with the uniformity required for demanding control center applications. Page 58.
- DiamondScreen™—Draper's optical rear projection screen. The DiamondScreen provides an extremely bright image with a full 180° viewing cone, making it perfect for use with CRT or low light output single lens projectors. The DiamondScreen's optics are specially designed for the best reproduction of images projected by CRT projectors, with maximum brightness. Page 58.
- HoloView—Revolutionary rear screen adds drama to point-of-purchase and public displays. The transparent screen is suspended in an inconspicuous aluminum frame. When a projector's beam strikes it, the image seems to come from nowhere! Page 59.

Draper dealers and personnel will be pleased to give you personal assistance in selecting a rear projection screen to fit your requirements.

Complete specifications for all Draper rear projection screens and systems are located on the Internet at www.draperinc.com.

AT&T Solutions Presentation Center, Dublin, OH. MultiScreen System with three 72″ diagonal DiamondScreens and custom front panels.

High Contrast Black

Draper's High Contrast Black rear projection screen is a super high contrast black rear screen for videowall and other demanding requirements. Provides vivid color contrast under any ambient lighting condition. Advanced optical light control and the totally black surface prevent ambient light from degrading the black level in an image. Available by quotation.

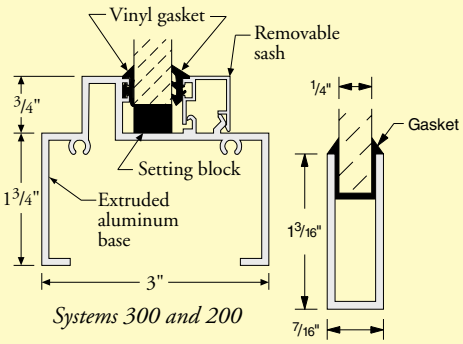
Cineframe®

For Draper Rear Screens

Rigid rear screen installation costs and problems are virtually eliminated with factory-installed Cineframes. Simply place the screen in the finished wall opening, shim into position and trim as desired. No need to hire a glazier. Four styles available. All are extruded of 6063-T5 alloy anodized aluminum.

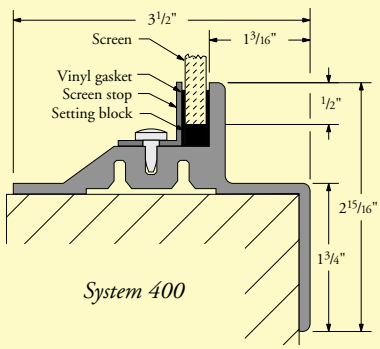
System 400

System 400 simplifies your installation. Cut a rough opening ¼″ larger than the overall frame size, slide the screen in and bolt into place. No finish carpentry required. System 400 has a 1¾″ wide dress trim that hides the opening. The audience only sees an attractive frame around a rear screen. Suitable for Cineplex in sizes through 9′ x 12′ in ⅜″ thickness, ¼″ Cineplex in all sizes, IRUS and Vortex, and DiamondScreen in sizes through 160″ diagonal, and ¼″ and ⅜″ Cineglass in sizes through 91″ x 121″. Black finish.



Systems 300 and 200

System 100



System 400

System 300

Adds 4¼″ to overall size of screen; reduces clear image area by 1″ in each dimension. Suitable for any Cinescreen ⅜″ or ½″ thick. Black or clear anodized finish.

System 200

Same sturdy design as the System 300, extruded to a slightly thinner wall. Suitable for ¼″ and ⅜″ Cineglass in sizes through 8′ x 10′, ¼″ and ⅜″ Cineplex in all sizes, IRUS and Vortex in all sizes, and DiamondScreen through 160″ diagonal. Black or clear anodized finish.

System 100

Simple, clean frame for smaller rear screens. Adds 1¾″ to overall height and width of screen; reduces clear image area by ⅞″ in each dimension. Suitable for ¼″ Cineglass in sizes through 4′ x 5′, ¼″ Cineplex, IRUS, DiamondScreen and Vortex in sizes through 100″ diagonal. Black or clear anodized finish.

Planning For Rear Projection

For best rear screen performance, a number of variables must be considered to determine the correct screen size, placement and optical qualities.

Size—For legibility, we suggest this rule:

- L = distance from screen to back row of seats
- Screen height ≥ L÷4 for 4:3 aspect ratio. (For dual image presentation, use L÷3. For Command/Control centers, use L÷2).

Placement—Screen should be installed high enough for all seats to have an unobstructed view, but with its center no more than 20° above the eye level of any viewer. In a room with a level floor, the bottom of the screen should be 36″-48″ above the floor.

Audience—Ideally, all viewers should be seated within 30° of the projection axis and never more than 45° off axis. The front row of seats should be set back at least twice the width of the screen.

Audience Lighting—Most Draper rear projection screens are designed for use in lighted rooms. Optical qualities will be enhanced if lighting is controlled so that no direct or reflected light strikes the screen.

Projection Area—Ideally, the depth of the projection room should be 2x the screen width. This is often not feasible, so high quality first surface mirrors may be used to fold the projection path, achieving the desired image size within a shorter distance. A Rear Projection System from Draper is an easy, convenient solution. (See page 62 for details.)

Brightness & Uniformity

The charts at right are useful for evaluating gain (brightness) and uniformity of Draper rear projection screens. The flatter the curve within the cone where the audience will be seated, the more uniform the image they will see. Many current projectors are much brighter in the center of the image than at the edge, so this is a critical factor in the success of your installation. The higher the curve against the "Y" axis, the brighter the image at center.

Cinescreen optical coatings offer the opportunity to customize your rear projection screen for a precise fit to your room and projection equipment. Select the optical coating for brightness and uniformity, choose the optical tint to set the contrast level and specify the desired substrate. (See page 57 for details.)

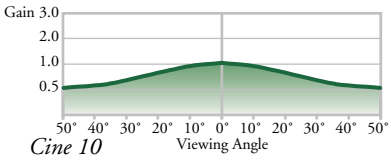
The IRUS provides outstanding uniformity and legibility with projectors of all types. This screen was designed specifically to meet the resolution needs of SXGA, UXGA and higher projectors. (See page 56.)

The new Vortex combines the best features of two rear screen technologies—optical and diffusion. Provides extraordinary uniformity and a broad viewing cone. (More information on page 58.)

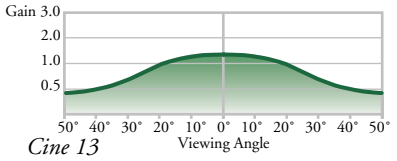
DiamondScreen's complex cast acrylic lens system distributes projected light in a wedge-like formation covering a wide horizontal viewing cone, minimizing vertical light distribution. Provides excellent brightness and uniformity with CRT projection. The DiamondScreen optics may in some cases conflict with images from single-lens video and data projectors. (Refer to page 58 for more on DiamondScreen.)

Photo courtesy of Ceavco Audio Visual Company

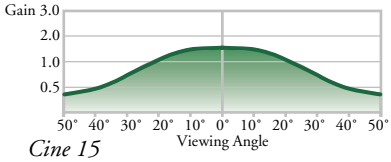
Cinescreen Optical Coatings



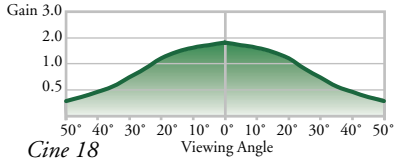
Cine 10



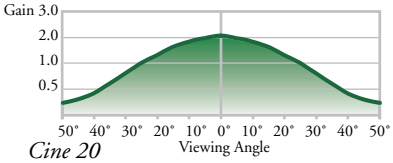
Cine 13



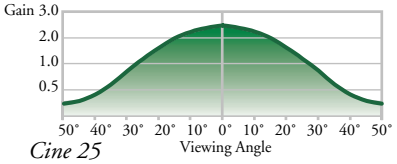
Cine 15



Cine 18

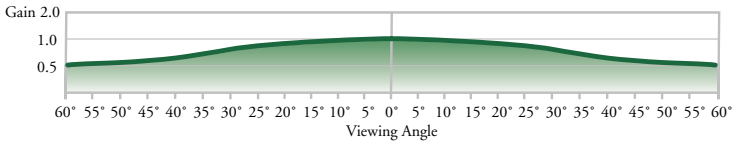


Cine 20

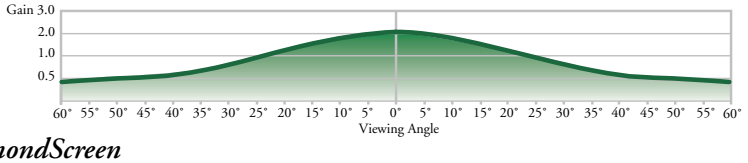


Cine 25

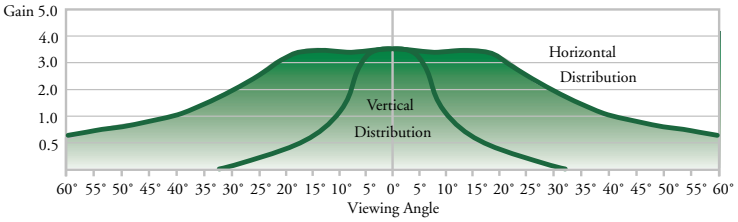
IRUS



Vortex



DiamondScreen



ConAgra Foods, Continental Divide Training Room, Greeley, CO. Second Prize, Classrooms and Training Facilities, 2002 Best Presentation Rooms, Presentations Magazine. 120″ diagonal IRUS rear screen. Photo courtesy of Ceavco Audio Visual Co. Inc.

IRUS—
Infinite Resolution Uniformity Screen

Nominal Diagonal	Image* Area	Overall Size	Net Wt. (lbs.)
60″	36″ x 48″	37″ x 49″	16
67″	40¼″ x 53⅝″	41¼″ x 54⅝″	18
72″	43¼″ x 57⅝″	44¼″ x 58⅝″	20
84″	50½″ x 67¼″	51½″ x 68¼″	27
90″	54″ x 72″	55″ x 73″	31
96″	57⅝″ x 76⅞″	58⅝″ x 77⅞″	44
100″	60″ x 80″	61″ x 81″	46
120″	72″ x 96″	73″ x 97″	66
HDTV Format (16:9)			
92″	45″ x 80″	46″ x 81″	31
106″	52″ x 92″	53″ x 93″	52

*Image area listed is typical and choice of framing may cause a variation.

When legibility is the key.

The Draper IRUS—Infinite Resolution Uniformity Screen—is specifically designed to provide maximum legibility with any projector. Today's SXGA and UXGA displays offer higher resolutions than ever before—which means more information for your audience to absorb. With these projectors, you need a screen that's up to the challenge.

In order to convey an increasing amount of information to the viewer, the IRUS uses proprietary technology to display the sharpest, most uniform image you've ever seen. An improvement for every rear screen application, the IRUS actually provides higher resolution than the human eye can perceive. The image is so consistent that it can be clearly seen even at 90° off axis (although most subject matter would be extremely distorted from this perspective). Brightness is consistent from center to corner—free of "hot spots". The IRUS provides excellent contrast, even in lighted rooms, with superior color reproduction.

The IRUS is perfect for command and control centers, where operators often have to watch for small changes in a large grid of screens for hours on end. Under those demanding conditions, the IRUS offers—

- *Uniform resolution compatibility*
- *Uniform center–to–corner brightness*
- *Superior color reproduction*
- *Excellent contrast*
- *Unique antiglare finish on ¼″ acrylic substrate*
- *1.0 gain*
- *180° viewing cone*
- *Sizes up to 120″ diagonal*
- *Ideal for SXGA or UXGA displays; ready for the next generation of higher resolution projectors*

Installation

When framing a single screen, select Draper's System 100, 200 or 400 framing systems (see page 54). For multiple screens or VideoWall applications, our Zero Edge, Clear Lexan or System 200 VideoWall Framing Systems are compatible (see page 60).

Cinescreen®

Only From Draper

Fakespace WorkWall in automotive application. Installation by Fakespace Systems.

Draper Cinescreens differ from any other rigid rear projection screens in two *extremely important* respects:

- Cinescreen optical coatings have been formulated to provide *inherent* abrasion resistance. No other manufacturer offers you this protection.
- Only Draper offers you a choice of six different optical coatings, each of which is available in your choice of three unique optical tints. With a Draper Cinescreen, you can select the *optimum combination* of optical coating and tint based upon your projection equipment, audience seating pattern, desired contrast level, screen aspect ratio, ambient light level and aesthetic considerations. *Only Draper offers you this versatility*. Draper dealers and personnel will be pleased to give you personal assistance in determining the ideal optical coating and tint for your particular requirements.

Planning Checklist

When specifying or ordering a Cinescreen, we need to know the following:

- Dimensions
- Substrate
- Thickness
- Optical coating
- Tint
- ArmorKote or NonGlare, if required
- Factory-installed framing—system number and finish, if required

Substrates

Draper uses the finest plate glass and clear acrylic as Cinescreen substrates. Optical qualities are very similar: today's acrylics have been improved and exhibit slightly better transmission than plate glass. Here are some other distinguishing characteristics:

- ***Cineglass***®—Recommended for maximum sound isolation, scratch resistance, and service life. Weighs approximately twice as much as acrylic, breaks more easily, must be installed by a glazier.
- ***Cineplex***®—Lightweight, durable and break resistant. Easier to install. Requires more care in cleaning, as acrylic scratches more easily than glass. Less soundproof than glass.

Optical Coatings

Cinescreens may be furnished with your choice of six optical coatings:

- ***Cine 10***—Ultra-wide angle coating for maximum center-to-corner uniformity of projected image: gain 1.0. Suitable for high output projectors.
- ***Cine 13***—Gain of 1.3, with extremely broad viewing cone and uniform distribution of projected light. For all formats, including higher-luminance projectors.
- ***Cine 15***—Benchmark wide-angle coating. Gain of 1.5, with uniform distribution of projected light. For all formats, including higher-luminance projectors.
- ***Cine 18***—For medium to wide-angle viewing, with on-axis gain of 1.8. Suitable for all projection formats, including video.
- ***Cine 20***—Peak gain 2.0, with a somewhat broader viewing cone than Cine 25. Suitable for relatively high ambient light conditions. For all projection formats, including data, graphics and video.
- ***Cine 25***—Suitable for narrow viewing cones and lower output projection formats. On-axis gain of 2.5. Good image resolution, color reproduction.

	Cineglass			Cineplex		
Thickness	¼″	⅜″	½″	¼″	⅜″	½″
Max. Size*	72″ x 96″	120″ x 204″*	120″ x 204″*	100″ x 150″	108″ x 240″*	108″ x 240″*
Weight/sq. ft (lbs.)						
Net	3.5	5	7	1.5	2.5	3.5
Shipping	8.5	10.5	12.5	6.5	7.5	8.5

*Larger sizes available on request. Contact Draper for details.

Optical Tints

The optical tint is an important modifier of the optical coating. Tint influences image contrast and color value. All six optical coatings are available in 3 optical tints (NG, HC, W), to allow the specifier to select the optimum combination of brightness, viewing angle and contrast level for the planned installation.

- ***HC—High Contrast*** (e.g. Cine 13HC)—Dark grey tint. Exceptional contrast and color rendition. Excellent light dispersion properties. Enhances legibility of computer generated data displays with light or bright text against a dark background: dark colors and black are reproduced with remarkable accuracy. HC tint performs equally well with static and moving displays.
- ***NG—Neutral Grey*** (e.g. Cine 13NG)—Standard formulation. Medium grey tint. Normal contrast levels and good color rendition. Brightness levels are uniform throughout entire viewing cone. Suitable for all projection formats and images.
- ***W—White*** (e.g. Cine 13W)—Neutral white tint. Low contrast levels with some loss in color rendition. Enhances rear screen's ability to reflect a laser pointer beam. Not recommended for computer graphic/data displays. Requires lower light level in audience area.

Be sure to specify NG, HC, or W along with the required optical and protective coatings.

Optional Coatings

- **ArmorKote**®—While Draper's optical coatings are inherently abrasion resistant, further insure your Cinescreen against damage by adding ArmorKote treatment. Highly resistant to solvents, abrasion and normal impacts of fingernails, pointers, pencils and pens. While ArmorKote will be damaged by repeated or willful abuse through impacts of sharp objects, use as a writing surface, etc., it is an excellent "insurance policy" against accident and error. Virtually impervious to grease, oil and ammonia; very resistant to most solvents, even permanent markers and chalk. It is invisible, does not affect image quality and is by far the toughest protective coating available.
- **NonGlare**—Applied to front or viewing side of the screen for anti-reflective properties. Slightly diminishes resolution. Recommended when using certain mirror systems and/or optical coating is being installed toward the projector. Ask for more details.

Installation

Draper Cinescreens may be framed at the job site or shipped with a factory-installed Cineframe® (detailed on page 54). Cinescreens are usually installed with the coated side facing the audience. The coated side may be installed toward the projector when there are concerns about abuse, with only a slight reduction in image quality.

Vortex

Combining the best of optical and diffusion rear screen technology.

The new Vortex is a marriage of the best features of two rear screen technologies—optical and diffusion.

A 0.5 mm Fresnel lens gathers the light from the projector and directs it at a right angle through the screen. As the light exits the screen on the audience side, a diffusion medium redistributes the light evenly in all directions—up, down, left, right and center. The result is an extraordinary projected image with—

- *Superior resolution*
- *Superb color contrast*
- *An exceptionally wide viewing cone in both the horizontal and vertical axes*
- *Extraordinary center-to-corner brightness ratio*
- *Uniform brightness without hot spots*

The unique features of the Vortex provide important advantages and benefits—

- *The Vortex is designed for use with single lens projectors*
- *Projected light is collimated, then diffused evenly, making the Vortex well suited for use in videowalls and rooms with tiered seating patterns*
- *Charcoal grey tint provides superior color contrast even under harsh ambient light*
- *The diffusion medium is in the acrylic, so the diffusion medium can't be scratched or damaged*

Large Sizes

The Vortex is available in sizes up to and including 160″ diagonal NTSC Video format.

Installation

When framing a single screen, select Draper's System 100, 200 or 400 framing systems. See details on page 54. For multiple screens or VideoWall applications, our Zero Edge, Clear Lexan or System 200 VideoWall Framing Systems are compatible.

Photography by Barry Rustin, Evanston, IL.

Nominal Diagonal	Image Area	Overall Size	Net Wt. (lbs.)
60″	36″ x 48″	37″ x 49″	16
67″	40¼″ x 53⅝″	41¼″ x 54⅝″	18
72″	43¼″ x 57⅝″	44¼″ x 58⅝″	20
84″	50½″ x 67¼″	51½″ x 68¼″	27
90″	54″ x 72″	55″ x 73″	31
96″	57⅝″ x 76⅞″	58⅝″ x 77⅞″	44
100″	60″ x 80″	61″ x 81″	46
120″	72″ x 96″	73″ x 97″	66
125″	74¾″ x 99¾″	75¾″ x 100¾″	71
140″	85⅜″ x 113⅜″	86⅜″ x 114⅜″	128
150″	91⅜″ x 121⅜″	92⅜″ x 122⅜″	146
160″	97⅜″ x 129⅜″	98⅜″ x 130⅜″	165
HDTV Format (16:9)			
92″	45″ x 80″	46″ x 81″	31
106″	52″ x 92″	53″ x 93″	52
119″	58″ x 104″	59″ x 105″	71
133″	65″ x 116″	66″ x 117″	83

DiamondScreen™

The brightest rear projection screen in the world.

DiamondScreen™—the first rear projection screen designed specifically for video and data projection. Unlike conventional rear screens, the DiamondScreen is cast (molded) and derives its incredible optical performance from its patented Fresnel/lenticular lens system. Particularly well suited for use with CRT or low light output single lens projectors.

The DiamondScreen offers—

- *The world's most sophisticated, efficient rear projection screen*
- *A panoramic 180° horizontal viewing cone, and the largest vertical viewing cone of any product of its type*
- *High Contrast grey optical tint, for superior color contrast*
- *Anti-reflective properties for superior performance even under conditions of high ambient light*
- *Superior corner-to-center brightness ratio, with no "hot spots"*
- *3.5 gain on axis*
- *The widest range of sizes—and the largest sizes—in the industry*

DiamondScreen is available in any custom size up to a maximum overall size of 120″ x 160″ (see chart on page 59).

Factory installed Cineframes® are also available to simplify installation—refer to page 54 for details.

Two 120″ DiamondScreen rear projection screens. Health Science Center at University of Wisconsin-La Crosse. Photo courtesy of SPL Integrated Solutions.

HoloView

Transparent rear screen. You've never seen an image like this before.

The HoloView rear screen stops prospective customers in their tracks. Grab the spotlight at trade shows, in showrooms, shopping malls and any retail environment. Cast a dramatic visual image in museums, banks, entertainment venues—anywhere you need to catch your audience's eye.

A HoloView screen consists of transparent ¼″ acrylic, with an optical medium in its matrix. The viewer can see a clear image—*and* see through the screen—at the same time.

For the most dramatic visual images, the HoloView should be suspended from wires or cables so the projected image appears to be floating in space. Screen is provided with aluminum grip strips at top and bottom for this purpose. Compatible with any single lens projector with digital keystone correction. Projector should be placed 22-36° off perpendicular from the plane of the screen—above or below. The HoloView rejects incident light, so you don't have to enclose the projection area—you can even hang this screen in a store window!

Large Sizes

The HoloView is available in sizes through 120″ diagonal. All sizes are single element, without seams or visible lens pattern. The sharpest, clearest and most accurate transparent image you'll find.

System Options

- Aluminum grip strips standard at top and bottom. Also available on left and right.
- Standard screen orientation is horizontal (landscape). May also be hung vertically (portrait position).
- Typical installation is free hanging. In-wall installation also possible, using System 100 or 200 Cineframe (see page 54).

DiamondScreen

Nominal Diagonal	Image* Area	Overall Size	Net Wt. (lbs.)
60″	36″ x 48″	37″ x 49″	16
67″	40¼″ x 53⅝″	41¼″ x 54⅝″	18
72″	43¼″ x 57⅜″	44¼″ x 58⅝″	20
84″	50½″ x 67¼″	51½″ x 68¼″	27
90″	54″ x 72″	55″ x 73″	31
96″	57⅜″ x 76⅞″	58⅝″ x 77⅞″	44
100″	60″ x 80″	61″ x 81″	46
120″	72″ x 96″	73″ x 97″	66
125″	74¾″ x 99¾″	75¾″ x 100¾″	71
140″[1]	85⅜″ x 113⅜″	86⅜″ x 114⅜″	128
150″[1]	91⅜″ x 121⅜″	92⅜″ x 122⅜″	146
160″[1]	97⅜″ x 129⅜″	98⅜″ x 130⅜″	165
170″[2]	101¾″ x 135¾″	103¼″ x 137¼″	238
180″[2]	107¾″ x 143¾″	109¼″ x 145¼″	244
190″[2]	113¾″ x 151¾″	115¼″ x 153¼″	263
200″[2]	118½″ x 158½″	120″ x 160″	269
HDTV Format (16:9)			
92″	45″ x 80″	46″ x 81″	31
106″	52″ x 92″	53″ x 93″	52
119″	58″ x 104″	59″ x 105″	71
133″[1]	65″ x 116″	66″ x 117″	83
161″[2]	80″ x 140″	81″ x 141″	150

* Image area listed is typical and choice of framing may cause a variation.

[1] These sizes require factory installed System 200 frame.

[2] These sizes require Large Screen System Frame (not factory installed).

Dantanna's Surf & Turf Restaurant, Atlanta, GA. Photo courtesy of Communications & Entertainment Inc. (CEI), Atlanta, GA.

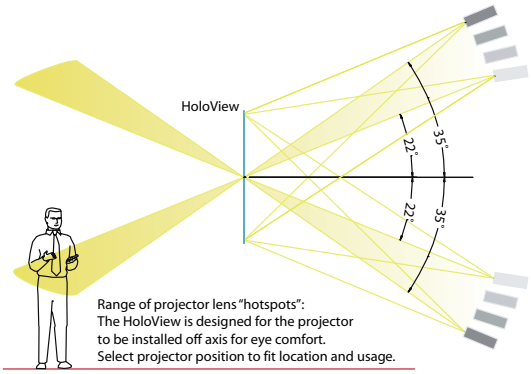
HoloView

Nominal Diagonal	Image Area[1]	Overall Size[2]	Net Wt. (lbs.)
40″	20½″ x 33¾″	23⅝″ x 33¾″	9
46″	24⅝″ x 38⅝″	27¾″ x 38⅝″	10
50″	26⅞″ x 42⅜″	30″ x 42⅜″	11
60″	33⅛″ x 50⅜″	36¼″ x 50⅜″	15
67″	37⅜″ x 55⅛″	40½″ x 55⅛″	19
72″	40⅛″ x 60″	43¼″ x 60″	21
84″	47¼″ x 69¾″	50⅜″ x 69¾″	29
90″[3]	50⅞″ x 74⅜″	54″ x 74⅜″	33
96″[3]	53⅝″ x 80″	56¾″ x 80″	37
100″[3]	56⅜″ x 84¼″	59½″ x 84¼″	41
110″[3]	60½″ x 92⅝″	63⅝″ x 92⅝″	45
120″[3]	66⅞″ x 100⅞″	70″ x 100⅞″	49

[1] With aluminum grip strips at top and bottom of screen. Grip strips also available on left and right sides through 84″ diagonal.

[2] Aluminum grip strips will add ⅛″ to relevant dimension.

[3] Large Screen Mounting Frame at top and bottom of screen. Draper recommends framing 90″ diagonal screens and larger to prevent bowing.



Typical HoloView Installation Method

Custom VideoWall Framing Systems

Essential to our superior VideoWall design.

Multiple rear screen VideoWalls are used in command and control rooms, network operations centers, sports and gaming venues, point of purchase advertising and the entertainment industry. Since 1985, Draper has developed a particular expertise in the design and manufacture of custom rear screen VideoWalls and related products for electronic information display. With installations in more that 70 countries, Draper is the acknowledged world leader in the most demanding area of the projection screen industry.

With more unique types of rear projection screens, videowall framing systems, and projector mounting systems, and more combined years of design experience than any other projection screen manufacturer, Draper's highly skilled engineers can provide an optimum solution for any information display requirement. Both technological and human factors are always carefully considered. All proposals are supported by CAD-generated dimensional drawings.

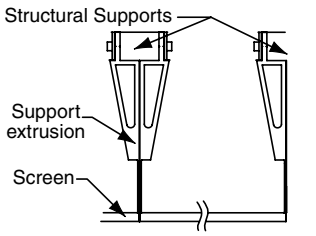
The IRUS, Vortex, Cineplex and DiamondScreen may be used in a VideoWall, with individual screen sizes from 30″ diagonal through 180″ diagonal. Draper offers three VideoWall framing systems.

Caltrans, Irvine, CA.—Transportation Management Center. Installed by MCSi. A 3 x 3 MultiScreen System of IRUS screens in Zero Edge frames. Includes custom monitor arrays.

Zero Edge Framing System

Draper's mullionless Zero Edge Framing System is the first and only optically seamless large screen videowall framing system. Zero Edge incorporates a proprietary screen attachment system supported by extruded aluminum light baffles on all four sides. Screens are assembled with "zero" separation. Actual screen separation is approximately .5 mm.

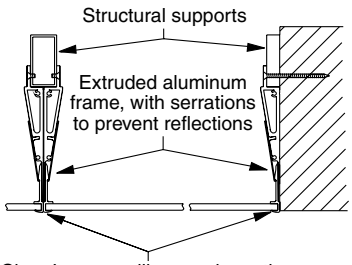
Zero Edge VideoWall modules may be installed in-wall or can be incorporated in a freestanding Draper MultiScreen System. Panoramic or tilted VideoWalls are possible in any configuration. Individual modules are completely self-supporting, reducing the possibility of screen warpage. U.S Patent No. 6,000,668.



Zero-Edge videowall frame

Close Edge Clear Lexan® Framing System

Individually framed screen modules with a "close-edge" transparent Lexan perimeter support frame, for a near-seamless appearance. Actual screen separation is approximately 4 mm. Screen modules include an extruded aluminum light baffle on all four sides. These modules are assembled within an existing rough opening. Panoramic or tilted VideoWalls are possible with Clear Lexan frames. U.S. Patent No. 6,296,214.

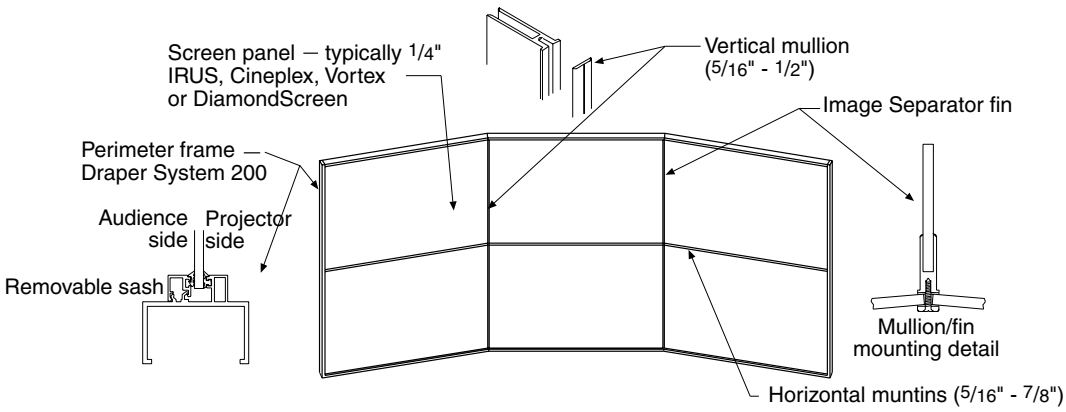


Clear Lexan mullions and muntins support screens with minimum separation

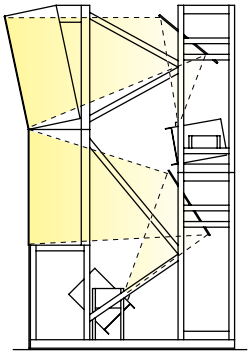
System 200 VideoWall Framing System

Offers maximum flexibility of design and structural integrity while accommodating rear screens of any size. Completely unitized for perfectly uniform contiguous images regardless of the number of screens or tiers in the array. The manufacturing and assembly of complex panorama radius VideoWalls is executed with precision and unparalleled structural integrity.

A patented two-piece image separator system, consisting of vertical mullions and horizontal muntins, enables removal of individual screens within the videowall without disturbing the rest of the system. Light separating baffles eliminate overscan between adjacent projected images. All System 200 components are extruded aluminum with black anodized finish. Every component is stamped and coded, and detailed assembly instructions and legend are provided. U.S. Patent No. 5,103,339.



MultiScreen System



Typical MSS
(2 screens shown)

The Draper MultiScreen System is a unitized, self-supporting rear screen/projector cradle/first surface mirror system designed for control center and other videowall installations. Each unit consists of 2 or more rear screens, cradles and mirrors, all positioned in the exact required relationship to each other and to the audience. A projector access panel is located at the bottom, and is equipped for easy removal without tools.

- Designed and custom built to your specific requirements.
- Totally unitized and designed to conserve floor space.
- Available 2, 3, or 4 screens high, with upper screens tilted as necessary.
- Alignment Platform available for precise positioning of projectors.
- Choice of rear screen: IRUS, Vortex, Cinescreens or DiamondScreens.
- Choice of screen frames: Zero Edge (optically seamless) or transparent Clear Lexan®.
- Screen sizes from 30″ through 135″ diagonal.

Projector Support Structures

When building a custom videowall system, video and data graphics projectors must be safely and securely mounted at the proper focal distance from the screen. Draper offers sophisticated Projector Support Structures, designed and built to your specific requirement. Projectors will be positioned in the exact required relationship to a multiple screen videowall. Features:

- Custom-fitted projector cradles
- Machined aluminum pivot plates for quick alignment
- Unitized welded tubular steel framework
- Optional Alignment Platform for precise positioning of projectors
- Available in any grid configuration, in either straight throw or mirrored design.
- Mirrors, if required, are 94% reflective optical grade first surface glass. (See page 64.)

VideoConferencing Camera Box

Draper's VideoConferencing Camera Box makes installing a videoconferencing camera quick and easy. The box allows the camera to be recessed in the wall, behind a hinged tempered glass door. The installer simply cuts the desired opening in the wall, inserts the five-sided steel enclosure and engages the "quick clamps". No additional hardware or brackets are required. There's no finishing either: the box features a bezel that trims the rough opening. All visible surfaces are finished with black epoxy powdercoat. Four convenient cable exits make wire management a simple proposition. Suitable for use with thin panels or gypsum board wall openings. Size is 8⅞″ high x 16⅜″ wide x 11″ deep. Also available in locking version to protect sensitive equipment. Two keys provided.

Features Include:

- Precision formed and punched from 18-gauge cold rolled steel.
- Finished inside and out with durable black epoxy powdercoat.
- Front of enclosure features a ⅞″ finishing frame bezel that is self-trimming.
- Enclosure features four "knock out" wire management locations for cabling options.
- Enclosure will mount in any opening utilizing built-in "quick clamps" that can clamp to most walls or panels.
- Glass door is hinged to fold down for easy access.

Custom IDS products

Draper specializes in custom rear screen products and configurations for simulation applications, virtual reality systems, point-of-purchase displays, command and control centers, network operation centers, conference rooms, board rooms, training rooms, commercial simulation, product and process design, sports and gaming venues, broadcast and teleconferencing. Contact your Draper dealer for details.

Draper RPX— Rear Projection System

NEW

The RPX features metallic blue aluminum extrusions. The standard RPX configuration is pictured above.

Takes the guesswork out of rear screen system design.

Draper designed the Rear Projection System to provide perfect rear screen picture quality, while saving valuable floor space. The RPX folds the light from a video, data-graphics, LCD, DLP, CRT, digital, or slide projector using the finest optical quality, first surface glass mirror.

The RPX consists of a custom designed projector cradle, first surface glass mirror, and a unitized framework of blue extruded aluminum to position the projector and mirror in precisely the right relationship to each other and to the rear screen.

The projector cradle is customized for your projector, and allows for both tilt-axis adjustment and micro-fine height adjustment—without tools—to position the image on the rear screen. The cradle holds a six axis adjustment sled allowing movement to be modified for best image alignment.

The real beauty of the RPX is that it is built specifically for your unique requirement. You provide us with the make and model of projector, desired screen size, and a few simple room dimensions. Our designers evaluate the optics and determine the proper light path geometry. The RPX is preset for a perfect fit. If the room dimensions or projector specifications change, the RPX can now be adjusted in the field. Mirror height, projector height, mirror angle, and projector position (front to back) are all adjustable.

The RPX ships complete with all required fasteners and hand tools.

RPX System Components

Supporting frame is constructed of unitized framework of blue extruded aluminum with a 2″ square cross section, fabricated from 6061-t6 alloy. It is sized to fit perfectly in your projection room, based upon dimensions you furnish.

Sled Base features heavy-duty leveling feet and predrilled anchor points: when the system is correctly set, it may be permanently fastened in place.

Pivot plates are predrilled for the proper angle of installation, *and* calibrated in degrees for quick, precise adjustments if required. Mirror plate features shoulder bolts to simplify installation and slots for height adjustment.

Projector cradle is custom-fitted to your projector. It is positioned on the frame in exactly the proper location for correct geometry. Pre-drilled adjustment holes allow for changes in room configuration. Cradle formed of 11–ga. steel, finished in black epoxy powdercoat and predrilled for your projector.

Glass, first surface mirror is 94% reflective, box framed in black anodized aluminum. Sized and positioned to reflect a perfect image on the rear projection screen. Height and angle may be adjusted when needed.

6-Axis Adjustable Platform

Draper's new 6-Axis Adjustable Platform is standard with all RPX and RPX/Complete units. The platform allows all movement to be modified for best image alignment. The projector light path can be adjusted in all 6 axes for a perfect picture every time.

Exclusive Features for Adjustability

Mirror Pivot Plate—The new mirror pivot plate makes mounting the mirror much easier: shoulder bolts mean the mirror can simply be lifted into position and stabilized at the proper angle while a second bolt is installed. After installation, adjusting the height or angle of the mirror is easy with the calibrated plate and predrilled adjustment holes.

Cradle Pivot Plate and Height Adjustment—With the new calibrated pivot plate, micro-fine finger adjustment of tilt angle and height, and cradle-to-mirror distance adjustment, resetting the RPX in the field is simple. You may even be able to adjust for a new projector. Draper can provide engineering assistance with readjustment as well as with the original setting.

Mirror Manager—An option for additional image alignment. See page 64.

RPX/Complete

The Draper RPX/Complete has all the features of the RPX *plus* a framed rear screen attached to the structural uprights. Choice of an IRUS, Vortex, Cinescreen or DiamondScreen in a System 400 frame attached to the RPX for a perfectly aligned system. Screen sizes through 6′ high x 8′ wide. The advantages of an RPX/Complete are staggering:

- Framed screen "floats" in your wall opening. The wall does not bear the weight of the screen, so no finishing or reinforcement of the opening is required. Cut a rough opening and set up the system.
- Since the wall's expansion/contraction properties do not put pressure on the screen, the result is a consistently flatter screen.
- Each element in the system is locked into its proper relationship, square with the others: screen-to-projector platform; projector platform-to-mirror; mirror-to-screen.
- Save installation time. Assemble the system, adjust the leveling feet on the base of the RPX and the entire system is level.
- Since the screen is automatically square with the mirror, installation of projector and alignment of image is made easier.

RPX/Precision

The Draper RPX/Precision offers the world's most precise image alignment capabilities in a custom-built rear projection system. Why is that so important?

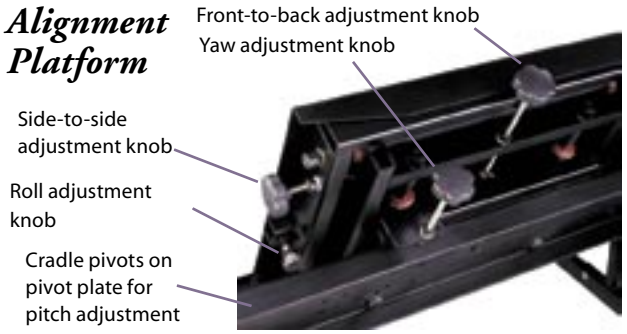
Today's digital projectors often allow little or no electronic image position adjustment. Therefore, precise physical positioning of the projector becomes critical in aligning and edge matching side-by-side images, and even in precisely locating a single projected image.

With incredible accuracy, the fine tuning capabilities of the Draper RPX/Precision Alignment Platform gives you isolated adjustment of each individual projector in all six axes: height, front-to-back position, side-to-side position, pitch, roll and yaw.

Draper's unique Alignment Platform will allow single lens projectors, which have no internal or electronic adjustments, to adjust horizontal keystone, image size, image shift and image rotation.

Alignment Platform is also available in a lightweight version for today's smaller projectors.

Alignment Platform


Front-to-back adjustment knob
Yaw adjustment knob
Side-to-side adjustment knob
Roll adjustment knob
Cradle pivots on pivot plate for pitch adjustment

The RPX/Precision with Alignment Platform can be adjusted in all six axes. Also available with Projector Support Structure and Multi-Screen System. See page 61.

RPX/Lite

The Draper RPX/Lite is an economical mirror system designed for use with lighter weight LCD and DLP projectors. Any projector weighing less than 50 pounds is suitable for the RPX/Lite. This mirror system is lighter in overall weight but maintains the same high quality workmanship and superior components as our RPX and RPX/Precision systems. Stability, rigidity and precise engineering are not compromised on the RPX/Lite. Your projector sits on a black laminate projector shelf, secured through mounting holes pre-drilled at the factory to fit its footprint.

The RPX/Lite incorporates many of the features that make Draper units the finest in both engineering and execution: Draper first surface optical grade glass mirror; alignment holes on pivot plates of both the mirror and projector shelf for quick precise alignment; heavy-duty leveling feet and predrilled anchor points; easy to follow assembly instructions. Includes the hand tools needed for assembly.

First Surface Mirrors

Sold separately, or with rear screen systems.

Draper provides optical grade first surface mirrors for improved rear projection image quality. First surface mirrors are frequently used in rear projection systems design to fold the light from the projector, reducing the required depth of the projection area behind the rear screen. Conventional mirrors are not satisfactory for this purpose, because the reflective coating is on the back side of the glass. Under projection, the majority of light would be reflected by the reflective coating and a minority by the first surface of the mirror, resulting in an objectionable double image.

Draper first surface mirrors consist of a 94% reflective optical grade vacuum coating on a 6 mm thick glass substrate. We offer first surface mirrors in nine standard sizes ranging from 25″ x 40″ through 74″ x 100″, or in any custom size of your choice. Mirrors are available with or without a factory installed protective frame.

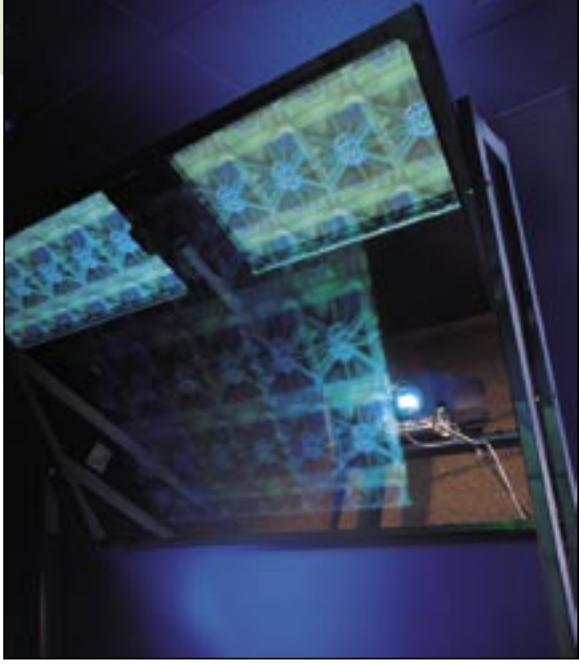
Mirror Standard Sizes

Mirror Size (H x W)	Mirror Size (H x W)
25″ x 40″	48″ x 60″
30″ x 40″	48″ x 74″
43″ x 50″	60″ x 90″
43″ x 60″	74″ x 100″
43″ x 74″	

Larger and cut down sizes available.

First surface mirrors are also provided with Draper Rear Projection Systems, MultiScreen Systems or Projector Support Structures, all designed specifically for your projection requirement (see page 61-63).

Draper also offers a unique and highly effective stiffening system for mirrors 48″ x 74″ and larger. This system ensures flatness and eliminates the pin cushion effect, double imaging and dead spots, resulting in significantly improved image quality.



Projection room at Michigan Virtual University, Lansing. Installation by AXXIS Incorporated.

Mirror Manager

No more lost pixels.

You may know how tough it can be to make those final tweaks so the projector will put a perfectly square image on the rear projection screen. Lining up all the images in a control center videowall may be the work of several days. Mirror Manager is Draper's innovative solution to that problem.

The Mirror Manager may be used as part of a Draper Rear Projection System, Retro, MultiScreen System or anywhere a Draper first surface mirror is installed. With Mirror Manager, the final image adjustments are quick and easy. After you have adjusted all the larger controls: the projector, its platform, and mirror position… then Mirror Manager goes to work. Using its hand-operated knobs, you can quickly fine-tune the image to eliminate pincushioning, barrel distortion and just to square up the corners. The mirror remains securely mounted in a black anodized extruded aluminum frame.

Mirror Manager saves installation time and money—and improves the image—by actually bending the mirror in tiny, highly controlled increments. Use eight knobs around the perimeter to make the precise adjustment you need. Mirror Manager should be used only for those minor tweaks that look so easy and take so long without it.

Retro/QA

Retrofit any room with rear projection.

We custom design and build the Retro/QA based upon your choice of projector and screen. Select any projector and any screen size through 125″ diagonal.

The Retro/QA is a portable, self-contained rear projection system. Disassembles for transport or storage. All components fit through a standard door. Assembles easily and quickly on site. Includes the Draper IRUS, Cineplex, Vortex or DiamondScreen with a ⅜″ low profile frame of black anodized aluminum or clear matt Lexan.

The Retro/QA features the same high quality projector cradle and first surface mirror assembly as other Draper Information Display Systems products. Also available: Alignment Platform, Zero Edge framing, 3″ urethane swivel casters, 4-outlet surge protected power strip and cooling fan. Multiple units will abut to form a portable videowall. May be finished in your choice of laminates or veneers.

Screen Size (diagonal)	Overall Size* H x W x D	Distance From Bottom of Screen to Floor
60″	92½″ x 48″ x 48″	56½″
67″	92½″ x 54¼″ x 50″	50½″
72″	92½″ x 58⅞″ x 56″	48″
84″	102½″ x 68½″ x 60″	50¾″
90″	106½″ x 74¼″ x 64″	50¾″
96″	110½″ x 79″ x 68″	50⅝″
100″	112½″ x 82¼″ x 73½″	50¼″
120″	116½″ x 98¼″ x 96″	42¼″
125″	118½″ x 101″ x 98″	42½″

*Above dimensions are typical, and will vary for certain projectors. If in doubt, contact Draper for exact dimensions.

Memphis, TN, Welcome Center. Photography by Michael J. Dougherty.

Draper Easels

For effective visual presentations.

Quality easels from one of America's oldest and largest manufacturers of visual communication products. Draper Easels stand rock-solid on wobble-proof legs, fold easily for transport or storage. Numerous exclusive features insure effective, trouble-free visual presentations time after time.

Draper offers the largest selection of paper pad, dry-erase, poster and decorative display easels in the world. From heavy-duty models to decorative poster units, Draper offers easels for every situation. Careful attention to quality, function and appearance, plus an expanded range of decorative finishes, make Draper the world's premier line of professional easels.

In paper pad and writing surface easels, Draper offers two separate standards—DR Series and OP Series. Both are carefully assembled of high quality components with all-riveted construction.

DR Series

Constructed entirely of the highest quality structural grade aluminum alloy. Exclusive features such as a spring-loaded paper pad clamp, ball detent leg locks, hinged pen tray/chart shelf, hinged chart holders and a hinged storage compartment for writing instruments make Draper DR Series Easels the preferred choice of professional presenters.

OP Series

OP Series Easels use many of the same high quality components as the DR Series, and feature a spring-loaded paper pad clamp and ball detent leg locks. These have a trim, fixed pen tray and do not have hinged chart holders or a storage compartment. OP Series Easels feature a rugged, magnetic steel backboard.

Quality, Function and Appearance

Spring-Loaded Paper Clamp

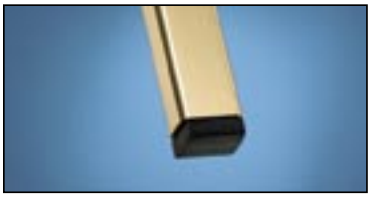
Paper pad attaches instantly to studs concealed under spring-loaded clamp. Pad is held securely in place—no moving parts to get lost.

Accessory Storage Box

Writing instruments are safely stored in the built-in storage compartment on all Draper DR Series Easels. Latch releases at the touch of a lever.

Ball Detent Leg Locks

Rugged ball detent hinge assembly automatically locks legs in place, releases at the touch of a finger. No exposed parts to bend or break.



Rubber Leg Tips

Rubber leg tips keep your easel firmly in place on any floor—won't "walk" when you write.

Hinged Pen Tray

Hinged tray holds markers, eraser and charts. Folds flat for transport or storage. No protruding parts to break or to damage other equipment. Standard on DR Series Easels.

Fixed Pen Tray

Narrow profile for transport or storage, yet large enough for markers, pointer, eraser or charts. Made of heavy-gauge steel. Standard on OP Series Easels.

Hinged Chart Holders

Aluminum arms fold down to support a hefty 80 lbs. of posters or charts. Arms fold flat when not in use. Standard on DR Series Easels.

Gold Anodized

Grey Epoxy Powdercoat

Silver Anodized

Black Epoxy Powdercoat

Finishes

These finishes are available for many of the products in our Easel line.

Paper Pad Easels

DR Series/OP Series

DR400/OP400 —Grey Epoxy Powdercoat ***DR500—Silver Anodized***

DR450/OP450—Black Epoxy Powdercoat ***DR550—Gold Anodized***

Quality, durable Paper Pad Easels available in two series: DR and OP. Both offer a 28″ x 38″ panel to accommodate all standard easel paper pads. Folds from 70″ height to a compact 28″ x 38″ x 2″. Finished in tough epoxy powdercoat or attractive brushed anodized aluminum.

The exclusive features of the all-alluminum DR Series are depicted on page 65. Hinged chart holders and pen tray/chart shelf allow for poster presentations at different heights.

The OP Series features spring-loaded paper clamp, ball detent leg locks and rubber leg tips. The backboard for OP Series easels is rugged magnetic steel. Fixed pen tray is standard. Chart holders and storage box not included.

OP450 and DR400

Options and Accessories

- ✓ **Vinyl Carrying Case SC30**—Fits all models on this page.
- ✓ **Paper Pads** (box of 4)
- ✓ **Paper Pad Marking Pens** (set of 24)

Writing Surface Easels

DR Series/OP Series

DR800—Porcelain Whiteboard/Gold Anodized

DR850/OP850—Porcelain Whiteboard/Black Epoxy Powdercoat

All the quality and convenience of Draper DR Series Paper Pad Easels, plus a built-in white porcelain on steel writing surface. The surface is smooth, framed on all four sides and has no visible fasteners. Use it with a paper pad for prepared presentations or to preserve notes; without paper for impromptu "chalk-talks". Chip-proof porcelain wipes clean instantly, never discolors. Useful for magnetic displays, or as a paper pad or poster easel.

The OP Series features include the spring-loaded paper clamp, ball detent leg locks and rubber leg tips. A fixed pen tray is standard. Chart holders and storage box are not included.

DR650—Powdercoat Whiteboard/Black Epoxy Powdercoat

Now you can have a lightweight, sturdy all-aluminum powdercoat easel, plus a dry erase writing surface! Provides the functionality of the DR850, at a lower cost. Legs, paper clamp and braces are finished in black, while the panel and its rivets are finished in dry erase white. The DR650's dry erase finish will stand up to the toughest use and still wipe clean. All-aluminum construction makes a lighter easel without sacrificing strength.

Model	Net Wt. (lbs.)	Model	Net Wt. (lbs.)
DR Series Paper Pad Easels		*DR Series Writing Surface Easels*	
DR400	12	DR800	21
DR450	12	DR850	21
DR500	12	DR650	13
DR550	12		
OP Series Paper Pad Easels		*OP Series Writing Surface Easels*	
OP400	15	OP850	21
OP450	15		

All units have the same dimensions when set up: 70″ high x 28″ wide, and fold to 38″ x 28″ x 2″.

DR800 and DR650

Options and Accessories

- ✓ **Paper Pads** (box of 4)
- ✓ **Paper Pad Marking Pens** (set of 24)
- ✓ **Dry-Erase Marking Pens** (set of 4)
- ✓ **Porcelain Cleaner**
- ✓ **Eraser**
- ✓ **Magnets** (set of 24)

Easel Accessories

PEN1 Paper Pad Pens—Quality water soluble chisel point marking pens. Set of 24 in black, blue, red and green, or all one color on request.

POR1 Dry-Erase Porcelain Marking Pens—Set of 4 includes black, blue, red and green. Ink dries instantly, wipes off porcelain with eraser or dry cloth.

CLE1 Porcelain Cleaner—Restores dry erase panel to original factory condition. 8 oz. pump spray bottle.

ER1 Eraser—For dry erase surfaces.

MAG1 Magnets—Set of 24 colorful button magnets for dry-erase porcelain easel presentations.

Writing Accessories

Heavy-Duty Easels

Paper Pad Easels

DR890—A-Frame Easel

Draper heavy-duty paper pad easels are the world's toughest. Designed and built to perform time after time—and keep their good looks. Heli-arc welded 1″ square tubular aluminum frames and sturdy aluminum backboards take the hardest knocks with complete stability.

The DR890 features an A-frame design and a durable satin silver anodized finish. Steel pen tray is fixed in position. Does not include accessory storage box. Entire unit folds flat for storage or transportation.

DR891—A-Frame With Casters

Identical to the DR890, but with roll-around casters (2 with locks).

DR895—Folding A-Frame

Like the DR890, but with folding legs. The entire unit folds to a compact 6″ x 29″ x 39″. Fits optional SC30 carrying case.

DR990 and DR895

Writing Surface Easels

DR990—Dry-Erase A-Frame Easel

The DR990 is identical to the DR890, described above, except that the panel and rivet heads are finished in dry-erase white powdercoat. Finally, a dry erase easel that can really stand up to the demands of the hotel and rental market!

DR995—Dry-Erase Folding A-Frame Easel

This sturdy easel also includes a dry-erase panel and rivet heads. Folding legs allow the entire unit to fold to a compact 6″ x 29″ x 39″. Fits optional SC30 carrying case.

Model	Height(Set Up)	Dimensions(Folded)	Net Wt. (lbs.)
DR890	72″	4″ x 29″ x 72″	19
DR891	75″	4″ x 29″ x 75″	21
DR895	72″	6″ x 29″ x 39″	20
DR990	72″	4″ x 29″ x 72″	19
DR995	72″	6″ x 29″ x 39″	20

Options and Accessories

- ✓ **Vinyl Carrying Case SC30**—Fits DR895 and DR995
- ✓ **Paper Pads** (box of 4)
- ✓ **Paper Pad Marking Pens** (set of 24)
- ✓ **Dry-Erase Marking Pens** (set of 4)
- ✓ **Porcelain Cleaner**
- ✓ **Eraser**
- ✓ **Magnets** (set of 24)

SC20 *Carrying Cases* *SC30*

Easel Carrying Cases

Attractive, durable leatherette carrying cases protect your easel and accessories in storage or transport. Reinforced stitching, zipper and closures.

SC20—For folding aluminum Poster Easels (Models DR250 and DR270).

SC30—For all Draper Paper Pad, Writing Surface and Heavy-Duty Folding Easels.

Easel Paper Pads

Standard 27″ x 34″ easel paper pads fit all Draper easels and most other models. High quality 16 lb. white sulfite bond does not bleed. Securely bound at top to heavy chipboard backing, and perforated for quick removal of used sheets. Drilled on 17½″ centers. Fifty sheets per pad, four pads per carton except as noted.

PP10

Plain 16 lb. white sulfite bond. Deluxe headstrip binds top of pad.

AV15

Same as PP10, but without headstrip.

AV15-40

Same top quality pads as our standard AV15, but packed 40 sheets per pad, 5 pads per carton.

GP20

16 lb. white sulfite, with 1″ square light blue grid.

RP30

16 lb. white sulfite, horizontally ruled at 1″ intervals.

Poster Easels

Folding Aluminum Poster Easels

DR250—6′ Gold Anodized

DR270—6′ Black Powdercoat

Lightweight yet rugged tripod easel can be used for posters or paper pads. Weighs only 7 pounds, travels easily and sets up in seconds. Hinged chart holders are attached to sturdy aluminum legs at four different heights for poster display. Spring-Loaded Chart Clamp (standard) attaches without tools, accommodates standard easel paper pads. Folds easily to 41″ x 5¼″ x 2″.

Non-Folding Aluminum Poster Easels

DR200—5′ Gold Anodized

DR205—5′ Black Powdercoat

DR220—6′ Gold Anodized

DR225—6′ Black Powdercoat

Sturdy tripod style easels. Hinged chart holders are riveted to sturdy aluminum legs at three different heights for poster display. These easels weigh 5 pounds or less, and flatten in one quick motion to 60″ or 72″ x 5¼″ x 2″ for storage.

Decorative Poster Easels

DR150—Brass Easel

Make an impression in hotel and restaurant lobbies, art galleries, museums, theatres—even shopping malls. Solid brass easel is fully lacquered to prevent tarnishing. Classic design draws attention to posters and announcements, complements any work of art. Just under 5′ tall, the DR150 enhances any setting.

DR160—Black Hardwood/Brass Easel

Similar to the DR150 in styling, the DR160 has a frame of fine-grained hard maple finished in black lacquer. Decorative brass accents are lacquer-coated.

DR170—Stained Hardwood/Brass Easel

A solid oak frame gives the DR170 its distinctive appearance. Available finishes include light and medium oak, walnut, cherry and mahogany. The elegant brass accents are lacquer-coated.

DR170 Finishes

Light Oak *Med. Oak* *Walnut* *Cherry* *Mahogany*

Note: Finishes are reproduced as accurately as possible within the limitation of the printing process.

DR150, DR250 and DR205

Options and Accessories for Aluminum Poster Easels

- ✓ **Vinyl Carrying Case SC20**—Fits DR250 and DR270
- ✓ **Paper Pads** (box of 4)
- ✓ **Paper Pad Marking Pens** (set of 24)

Model	Height (Set Up)	Dimensions (Folded)	Net Wt. (lbs.)
Aluminum Poster Easels			
DR200	60″	60″ x 5¼″ x 2″	4
DR205	60″	60″ x 5¼″ x 2″	4
DR220	72″	72″ x 5¼″ x 2″	5
DR225	72″	72″ x 5¼″ x 2″	5
DR250	72″	41″ x 5¼″ x 2″	6
DR270	72″	41″ x 5¼″ x 2″	6
Decorative Poster Easels			
DR150	59″		4
DR160	59″		5
DR170	59″		6

DRAPER

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Technical data, installation instructions and the most current specifications for Draper products can be found on the Internet at www.draperinc.com. Draper also manufactures FlexShade Systems, Window Shades and Gymnasium Equipment.

On the cover:

An Access/Series E projection screen, size 6′ x 8′, and a ceiling-recessed Revelation projector mount in the Council Chambers at City Hall in Lethbridge, Alberta, Canada. Installation by Inland AV, Canada. Photography by Lorne Kemmet, MPA. Lorne Kemmet Photography Ltd. Lethbridge, Alberta, Canada.

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